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INTRODUCTION

This Index is a subject guide to the major articles published in 394 British technical journals in 1965. It comprises about 30,000 entries arranged in a single alphabetical sequence of subject headings, together with supporting references.

Subject Scope

The Index embraces all departments of Engineering and Chemical Technology, together with the various Manufacturing Processes based upon them. It also includes a great deal of material on the pure science (i.e. the physics or chemistry) of man-made objects and industrial processes. Instruments of all kinds are covered, irrespective of whether their field of application is in pure or applied science. Articles on the chemistry of individual substances are also indexed, as it is only very rarely possible to assert that a chemical species is entirely without technical interest. The *Index* does not cover Industrial Economics, but it does contain references to articles of a mixed technical-economic character. These are invariably signalled by the subheading 'Industry' as opposed to the more usual 'Manufactures' or 'Production' for the technical processes. Technology also overlaps the field of Management at several points, and here the policy of the *Index* is to include from the management sphere only material on such physical and statistical techniques as work study, ergonomics and operational research. Finally, it should be mentioned that the *Index* omits the applied biological sciences from its purview. Here again a number of borderline subjects are included. For instance, the production technology and the chemistry of food, drugs and pesticides are covered, but the physiological chemical aspects are excluded.

Index Structure

The *Index* is designed primarily as a reference tool for tracing articles on highly specific topics. For this purpose the headings are detailed and generally co-extensive with the subjects of the articles listed.

The basic method of index construction may be illustrated by the treatment of such a subject

as 'Bleaching Cotton by hydrogen peroxide'. A single entry is made with supporting references, as follows:

COTTON, Bleaching, Hydrogen peroxide.

HYDROGEN PEROXIDE, Bleaching, Cotton.

See COTTON, Bleaching, Hydrogen peroxide

BLEACHING, Cotton. See COTTON, Bleaching

Additional facilities are given in two situations. When the first two elements of a heading are in the relation of Whole and Part, as in SHIPS, Diesel engines or MOTOR CARS, Bodies, then a second permuted entry (DIESEL ENGINES, Ships and BODIES, Motor cars) is given under the term representing the Part. This is considered desirable because interest in a particular component may often ignore the more comprehensive unit of which it forms a part. Considerations of a similar character arise in connection with Processes and Applications. The *Index* normally enters under the Application with a reference from the Process. There is a case for substituting a second entry for the reference, but it is felt to be less strong than the case for double entry for Whole-Part and Part-Whole, and it is not possible to have double entry for both in view of economic limitations on the size of the *Index*. The second occasion for the use of double entry is the subject which is a proper name, such as the name of a teaching or research institution, or the name of a prominent structure (realised or unrealised) such as the CHANNEL TUNNEL or FORTH ROAD BRIDGE. In these cases, entries are given both under proper name and under the term for the subject illustrated (e.g. BRIDGES, Suspension and TUNNELS).

In this *Index*, the subjects are entered directly into the alphabetical sequence, and not as sub-headings of more general terms, *as long as they can stand alone with unequivocal meaning*, corresponding to the subject of the article. Thus FUEL CELLS are entered directly, and not under ELECTRO-CHEMISTRY or GENERATORS, Electrical. The purpose here is again to facilitate specific topic searching. Though the *Index* is necessarily a cumbersome tool for broad field searching it has been thought desirable to signpost some varieties of subject relationship. *Index* users often discover pertinent material under a term narrower in meaning than that which they consulted first as approach term. Inquirers primarily interested in a particular application of a process may find useful information on other applications of the same process to parallel situations.

Relational signposting in the *Index* is carried out by references of two kinds. In the first place there are "Related heading" references which refer from more to less general terms. A number of classification schemes have been pressed into service in this connection. Not all of the various hierarchical steps are everywhere included. Thus the names of the various plastics are given as references at Plastics, and not via such intermediate groupings as Synthetic Resin Plastics, and Condensation Polymerised Plastics, though occasionally articles will appear covering these relatively generalised concepts. The "related heading" network for Chemistry is of the simplest kind. No attempt is made to link the various inorganic chemicals, and for organic chemicals only the intermediate concepts "Aliphatic" and "Cyclic" and "Heterocyclic" are brought into the system of references. For reasons of space no references are given between subheadings under the same main heading (e.g. AIRCRAFT, Engines and AIRCRAFT, Gas turbines). To compensate for this absence brief systematic synopses have been added at the beginning of certain of the longer sequences of subheadings.

The other relation-indicating mechanism is inherent in the system of inversion references, of which an example has already been given for

COTTON, Bleaching, Hydrogen peroxide.

The person searching for this subject may also be marginally interested in (a) Hydrogen peroxide, (b) Hydrogen peroxide bleaching, (c) Bleaching of other cellulosic fibres. The routine instruction is simply to note the sub-heading terms and then look them up in the main sequence. Thus at HYDROGEN PEROXIDE will be found entries for material in this substance in general and on its use for bleaching generally: there will also be references locating headings on its particular applications and the hydrogen peroxide bleaching of particular substances. At BLEACHING will be found entries for articles on bleaching generally, and references to headings on the bleaching of individual substances.

Order of Elements in Headings

Most of the subjects indexed are composite in that they cannot usually be expressed in a single word or phrase. The question therefore arises as to which of the various verbal elements required for the heading shall be entry word and generally as to the order of the other elements in the heading.

The order of verbal elements or components is normally so devised that an account of a process applied to a particular application is placed under the term for the Application. Another invariable

rule is that the various word-elements are arranged left to right in order of decreasing concreteness with the most concrete element as the entry word. There are many situations in which recognisable differences in terms of concreteness and abstractness may not be apparent, and a number of rules have been devised for the indexers which regulate heading component order through a consideration of the relationships between the components. The following table illustrates the more commonly used heading constructions and their natural language equivalents.

Compounds which specify a particular type or variety of Thing or Material:

<i>Heading and subheading</i>	<i>Natural language</i>
1. THING ₁ , Thing ₂ CONVEYORS, Roller	Conveyors with Rollers
2. FUNCTION, Thing PRINTING, Inks	Inks for Printing
3. THING ₂ , Thing ₁ BUSES, Garages	Garages for Buses
4. THING, Property FABRICS, Coated	Fabrics with Coating
5. THING ₂ , Thing ₁ , TURBINES, Rotors THING ₁ , Thing ₂ ROTORS, Turbines	Rotors of Turbines

Compounds denoting Actions or Properties of Things or Materials:

6. THING, Property BEAMS, Strength	Strength of Beams
7. THING, Action upon it IRON, Corrosion	Corrosion of Iron
8. THING ₁ , Action upon it, Thing ₂ METALS, Forming, Magnetic pulse	Forming of Metals by Magnetic pulses
9. THING, Action upon it, Byproduct PHTHALIC ANHY- DRIDE, Production, Tail gases	Tail gases as byproduct of Production of Phthalic anhydride
10. THING, Its Action LASERS, Welding	Welding by Lasers

Other compounds

11. ACTION ₂ , Action ₁ PACKAGING, Label- ling	Labelling for Packaging
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12. MATERIAL, Diversified role

PLASTICS, Building materials

Plastics as Building materials

N.B.—The subscript figures refer to order in English natural language using prepositions to indicate relationships. The term THING in examples 1–10 includes Materials.

These rules, taken separately or in combination, account for a high proportion of the indexing problems met.

Indexing of Locality terms

A high proportion of the articles indexed deals with objects or activities at particular places. It is of course possible to decide in a general way that the place is or is not significant, but as usual there is a great number of debatable intermediate cases. The radical solution of indexing place in all such cases is ruled out on grounds of space and economics. The practice adopted is as follows:

(1) An article surveying comprehensively the methods practised in a particular country, or a particular species of product produced in a particular country, receives a reference from the country (and from the continent in the case of Africa and South America.

(2) An article dealing with an individual factory or its products does not normally receive a reference from place. Individual structures are not usually specified and referenced by locality, except in the following instances.

Housing

Flats, Maisonnets

Churches, Monasteries and similar buildings

Government and municipal buildings

Town planning topics

Mines

Pipelines

Power stations (including Nuclear and Hydroelectric)

Dams

Coastal and Flood control works, Drainage, Water engineering

Roads

Buildings connected with transport.

Ambiguity in headings

The use of relational criteria in constructing headings goes some way towards reducing ambiguity of index headings. However, the omission of the actual relational terms or phrases can still occasionally lead to uncertainty of interpretation. Often this uncertainty is of a kind that matters little for information retrieval purposes. The heading

METALS, Extrusion, Presses

can mean that the article is about the extrusion by the press or it can be about the press which extrudes. It is doubtful if ambiguity of this kind

is of great practical importance. To distinguish an action, part or property, from the use of an action part or property term to denote a particular kind, e.g. Paint, Stoving—the stoving of paint, and Paint, Stoving, i.e. Stoving paints, the *Index* uses parentheses around a type-specifying word where the distinction seems required. The parentheses have the same sorting value as the commas which they replace.

Journals covered

A list of the journals covered by this volume of the *Index*, together with their publishers' addresses, is to be found at the end of the book. It includes some titles no longer in existence. Society publications simply entitled *Journal of . . .*, *Proceedings of . . .*, or *Transactions of . . .* are entered in the list under the name of the society. (In *Index* citations these journal titles are given in the form used in the journal itself, with the abbreviations shown on page ix.)

Thanks are due to the publishers of many of these journals for supplying copies for indexing and so expediting the work.

Selection of articles for the Index

An attempt has been made to select the more substantial articles published in the journals listed, though no evaluative criteria have been employed. The following types of material are normally excluded: (1) articles comprising less than a page of text and/or diagram in the usual format and typography, (2) brief resumés of symposia and conferences, (3) accounts of exhibitions, and other articles which consist of enumerative descriptions of a variety of products, (4) regular miscellany features, (5) students' features, (6) letters, (7) notes, (8) discussions, (9) book reviews other than essay reviews and review articles.

Indexing unit

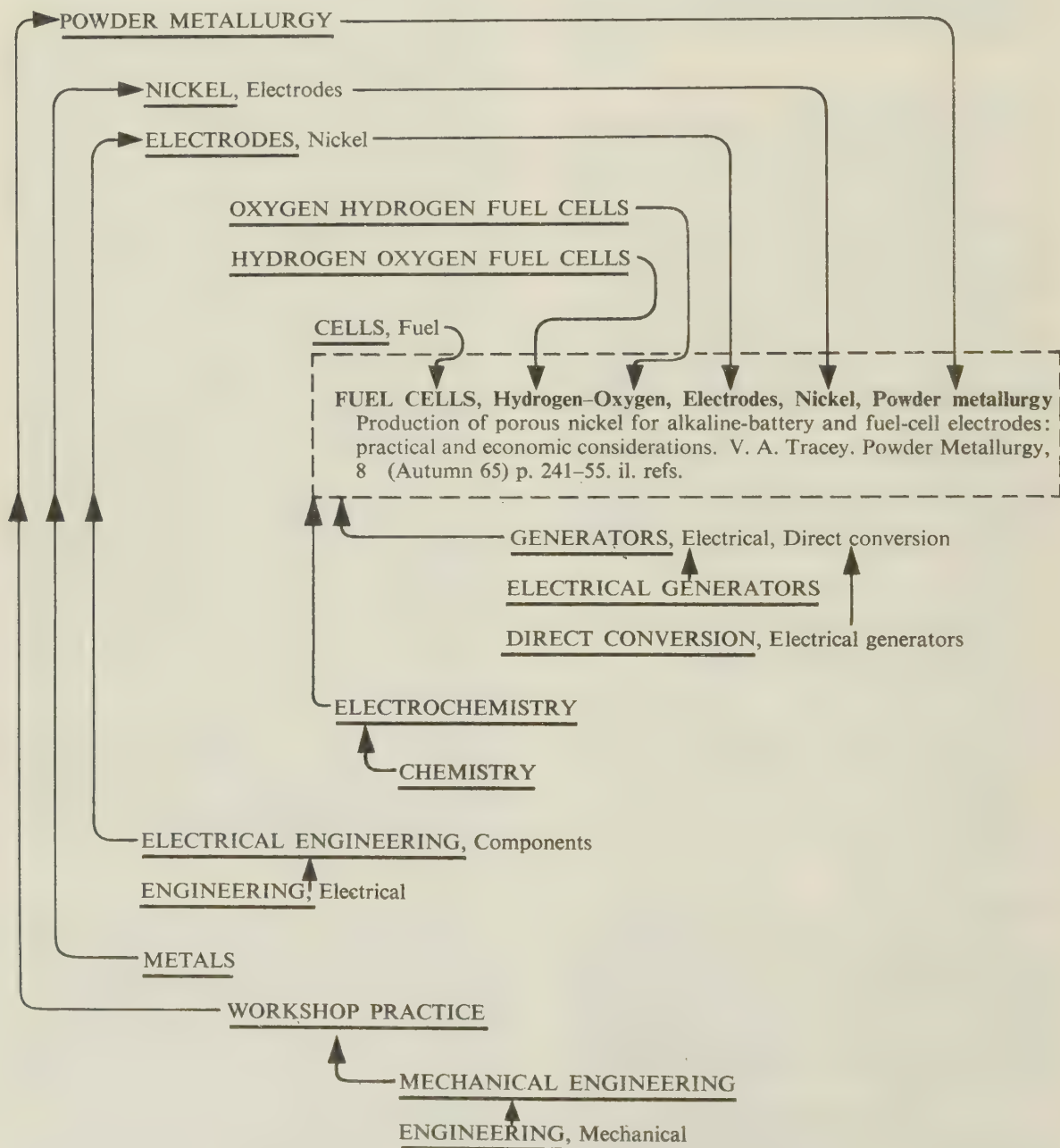
The unit of material indexed is the individual article or the part of an article which appears in a single issue of the journal. The various parts of an article published over several issues are therefore not all given the same heading where they are individually distinctive in subject matter.

Synopses

Brief systematic synopses are provided in some cases where there are long sequences of sub-headings under the same main heading. They are included because no connective references are supplied between sub-headings under the same main heading. They also afford a much simplified bird's eye view of the scope and ramifications of the material indexed under the headings concerned. The terms which are italicised in the synopses are found in their *direct* alphabetical position in the sequence of sub-headings. The terms printed in roman in the synopses are grouping terms only.

DIAGRAM TO ILLUSTRATE INDEX STRUCTURE

Any of the underlined approach terms can be used for tracing an article on powder metallurgy of nickel electrodes in hydrogen-oxygen fuel cells. The arrowed lines represent cross references.



List of Abbreviations used

Association	— Ass.	Journal	— J.
British	— Brit.	Page(s)	— p.
Bulletin	— Bull.	Proceedings	— Proc.
Engineer	— Engr.	Quarterly	— Q.
Engineers	— Engrs.	Royal	— R.
Engineering	— Engng.	References	— refs.
Gazette	— Gaz.	Review	— Rev.
Illustrations	— il.	Society	— Soc.
Institute	— Inst.	Transactions	— Trans.
Institution	— Instn.	Continued on later pages	— +

MAIN SUBJECT FIELDS COVERED

ENGINEERING

- Control, Computers
& Instrumentation
- Mechanical
- Production
- Electrical
- Nuclear
- Structural & Building
- Hydraulic
- Sanitary
- Shipbuilding
- Highway
- Railway
- Automobile
- Aircraft
- Astronautics
- Agricultural

CHEMICAL TECHNOLOGY

- Corrosion
- Chemical engineering
- Industrial gases
- Ceramics
- Refractories
- Fuels
- Petroleum
- Plastics & Rubber
- Organic chemicals
- Dyes
- Surface active agents
- Paints
- Food and drink
- Inks
- Pharmaceutical
- Photographic chemistry

MINING

METALLURGY

METAL MANUFACTURES

WOOD MANUFACTURES

TEXTILES

CLOTHING

PAPERMAKING

PACKAGING

WORKS MANAGEMENT

ECONOMICS OF TECHNICAL PROCESSES

INDUSTRIAL HEALTH & SAFETY

TECHNICAL EDUCATION

- A.B.S. See ACRYLONITRILE-BUTADIENE-STYRENE
- A.C., Bridges, Resistor measurement. See RESISTORS, Measurement, Bridges, A.C.
- A.C., Conductance measurement, Liquids. See LIQUIDS, Conductance, Measurement, A.C.
- A.C., Dielectric constant measurement, Liquids. See LIQUIDS, Dielectric constant, Measurement, A.C.
- A.C., Generators. See GENERATORS, Electrical, A.C.
- A.C., Machines
- Related Headings:
FREQUENCY, Changers
- A.C., Machines, Stators, Insulation
Electrical insulation for A.C. machine stator coils. J. D. Mann & M. Birchall. *Electrical Supervisor*, 45 (Sep 65) p.197+. il.
- A.C., Magnetic testing. See MAGNETIC TESTING, A.C.
- A.C., Measurement
Electronic laboratory instrument practice, pt.4: measurement of alternating voltage and current. T. D. Towers. *Wireless World*, 71 (Apr 65) p.198+. il.
- A.C., Measurement, Comparators, Vacuo-junction tubes, Manufactures
Vacuo-junction manufacture, pt.1. F. Gay & P. Hollingsworth. *Instrument Practice*, 19 (May 65) p.428-30. il.
- Vacuo-junction manufacture, pt.2. F. Gay & P. Hollingsworth. *Instrument Practice*, 19 (Jun 65) p.534-36. il.
- A.C., Measurement, Thermal devices
Multijunction thermal converter: accurate d.c./a.c. transfer instrument. F. J. Wilkins, T. A. Deacon & R. S. Becker. *Proc. of Instn. of Electrical Engrs.*, 112 (Apr 65) p.794-805. il. refs.
- Transfer instruments: summary of "Multi-junction thermal converter, an accurate d.c./a.c. transfer instrument". F. J. Wilkins, T. A. Deacon & R. S. Becker. *Electrical Times*, 147 (18 Mar 65) p.413. il.
- A.C., Motors. See ELECTRIC MOTORS, A.C.
- A.C., Motors. See ELECTRIC MOTORS, Synchronous
- A.C., Motors, Winches, Ships. See SHIPS, Winches, Electric motors, A.C.
- A.C., Motors, Winding, Mining. See MINING, Winding, A.C. drive
- A.C., Polarography, Surface active agents. See SURFACE
- A.C., Servomechanisms. See SERVOMECHANISMS, A.C. ACTIVE AGENTS, Polarography, A.C.
- A.C. COBRA CARS. See MOTOR CARS, Types, A.C. Cobra
- A.E.C. MAMMOTH MINOR TRACTIVE UNITS, Articulated motor vehicles. See MOTOR VEHICLES, Articulated, Tractive units, Types, A.E.C. Mammoth Minor
- A.E.C. MANDATOR 691/760 TRACTIVE UNITS. See MOTOR VEHICLES, Articulated, Tractive units, Types, A.E.C. Mandator 691/760
- A.E.C. MARSHAL 505/471 COMMERCIAL VEHICLES. See VEHICLES, Commercial, Types, A.E.C. Marshal 505/471
- A.E.C. MERCURY 471/505 COMMERCIAL VEHICLES. See VEHICLES, Commercial, Types, A.E.C. Mercury 471/505
- A.E.C. Y TYPE LORRIES. See LORRIES, Types, AEC Y type
- AER MACCHI MOTOR CYCLES. See MOTOR CYCLES, Types, AER Macchi
- A.E.R.E. See ATOMIC ENERGY RESEARCH ESTABLISHMENT, Harwell
- A.J.S. MOTOR CYCLES. See MOTOR CYCLES, Types, A.J.S.
- A.J.S. SAPPHIRE NINETY MOTOR CYCLES. See MOTOR CYCLES, Types, A.J.S. Sapphire Ninety

- A.J.S. 31 CSR MOTOR CYCLES. See MOTOR CYCLES, Types, A.J.S. 31 CSR
- AALTO, A.
Alvar Aalto in retrospect. R. Elvin. *Official Architecture & Planning*, 28 (Apr 65) p.551+. il.
- ABBATTOIRS. See SLAUGHTERHOUSES
- ABERDEEN
See
TERRY RESEARCH STATION, Aberdeen
- ABERRATIONS, Lenses, Electron optics. See ELECTRON OPTICS, Lenses, Aberrations
- ABERYSTWYTH
See
HOSPITALS, Aberystwyth
- ABERYSTWYTH. UNIVERSITY COLLEGE
University College of Wales, Aberystwyth. Architect & Building News, 228 (8 Dec 65) p.1082-3. il.
- University College of Wales, Aberystwyth. T. A. Owen.—Edward Davies Chemical Laboratory. W. J. Orville-Thomas.—Department of Physics. W. J. G. Beynon.—Department of Biochemistry and Agricultural Biochemistry. T. W. Goodwin. *Chemistry & Industry* (16 Jan 65) p.100-17. il.
- ABIETIC ACID, Diterpene alkaloids production. See DITERPENE ALKALOIDS, Production, Abietic acid
- ABLATION, Heat shields. See HEAT SHIELDS, Ablation
- ABO
See
TRAMWAYS, Turku
- ABRASION, Austenite formation, Mar-ageing nickel-molybdenum-cobalt-steel. See STEEL-COBALT-MOLYBDENUM-NICKEL, Mar-ageing, Austenite, Formation, Abrasion
- ABRASION, Rubber. See RUBBER, Abrasion
- ABRASION, Yarns. See YARNS, Abrasion
- ABRASION SOLDERING, Aluminium, Electric cables. See CABLES, Electric, Aluminium, Soldering (Abrasion)
- ABRASIVE TREATMENT, Cutters, Machine tools. See MACHINE TOOLS, Cutters, Abrasive treatment
- ABRASIVES
Related Headings:
CORUNDUM
- ABRASIVES, Coated
Development of abrasive techniques. E. Wilbraham. *Woodworking Industry*, 22 (Nov 65) p.47-8
- ABRASIVES, Finishing, Metals. See METALS, Finishing, Abrasives
- ABSORBERS, Wedge, Free-field simulation, Acoustics, Rooms, Buildings. See BUILDINGS, Rooms, Acoustics, Free-field simulation, Absorbers, Wedge
- ABSORPTION
Related Headings:
CHEMISORPTION
- ABSORPTION, Acetone determination, Air pollution. See AIR POLLUTION, Acetone, Determination, Absorption
- ABSORPTION, Aromatic compounds, P.V.C. pipes, Town gas. See GAS (Town) Pipes, P.V.C., Aromatic component absorption
- ABSORPTION, Atmosphere, Effect on infra-red spectroscopy, Semiconductors. See SEMICONDUCTORS, Spectroscopy, Infra-red, Effect of atmospheric absorption
- ABSORPTION, Carbon dioxide. See CARBON DIOXIDE, Absorption
- ABSORPTION, Carbon dioxide, Horizontal flow, Water films. See FILMS, Water, Horizontal, Carbon dioxide absorption

- ABSORPTION, Carbon monoxide. See CARBON MONOXIDE, Absorption
- ABSORPTION, Carbonyl sulphide. See CARBONYL SULPHIDE, Absorption
- ABSORPTION, Electrons, Electron microscopy, Crystals. See CRYSTALS, Electron microscopy, Electrons, Absorption
- ABSORPTION, Ferrites, Attenuators, Waveguides. See WAVEGUIDES, Attenuators, Ferrites (Absorption)
- ABSORPTION, Gases. See GASES, Absorption
- ABSORPTION, Hydrogen sulphide. See HYDROGEN SULPHIDE, Absorption
- ABSORPTION, Light, Lead silicate glass. See GLASS, Lead silicate, Light absorption
- ABSORPTION, Light condensers. See LIGHT, Condensers, Absorption
- ABSORPTION, Neutrons, Control rods, Reflectors, Nuclear reactors. See NUCLEAR REACTORS, Reflectors, Control rods, Neutron absorption
- ABSORPTION, Photons, Townsend discharge. See TOWNSEND DISCHARGE, Photon absorption
- ABSORPTION, Ultraviolet radiation, Aqueous solutions, Poly-4 vinylpyridinium chloride. See POLY-4 VINYL-PYRIDINIUM CHLORIDE (Aqueous solutions) Ultra-violet radiation absorption
- ABSORPTION, Water vapour, Leather, Clothing. See CLOTHING, Leather, Water vapour absorption
- ABSORPTION, Water vapour, Leather, Uppers, Footwear. See FOOTWEAR, Uppers, Leather, Water vapour absorption
- ABSORPTION REFRIGERATORS. See REFRIGERATORS (Absorption)
- ABSORPTION SPECTROSCOPY, Alpha brass. See BRASS, Alpha, Spectroscopy, Absorption
- ABSORPTION SPECTROSCOPY, Flash photolysis studies, Gases. See GASES, Photolysis, Flash, Studies, Spectroscopy, Absorption
- ABSTRACTS, Information services, Iron. See IRON, Information services, Abstracts
- ABSTRACTS, Information services, Steel. See STEEL, Information services, Abstracts
- ACARICIDES
Related Headings:
DINOBUTON
- ACCELERATED TESTING, Ready-mixed concrete. See CONCRETE, Ready-mixed, Accelerated testing
- ACCELERATION, Post deflection, Oscilloscope tubes. See OSCILLOSCOPES, Tubes, Post deflection acceleration
- ACCELERATION, Random, Effect on tracking performance, Flying, Supersonic aircraft. See AIRCRAFT, Supersonic, Flying, Tracking, Performance, Effect of random acceleration
- ACCELERATORS, Electron
Related Headings:
BETATRONS
SYNCHROTRONS, Electron
- ACCELERATORS, Electron, Linear, Pulse shortening, Waveguides, EH₁₁ mode
Experimental observations of pulse shortening in a linear-accelerator waveguide. T. R. Jarvis, G. Saxon & M. C. Crowley-Milling. Proc. of the Instn. of Electrical Engrs., 112 (Sep 65) p.1795-1802. il. refs.
- ACCELERATORS, Electron, Linear, Tubes, Copper
Linear accelerator demands vast copper usage: two million pound market outlet for high-purity copper in exacting fabrication area. Light Metals & Metal Industry, 28 (Nov 65) p.38-9. il.
- ACCELERATORS, Particle, Circular, Magnetic fields, Index, Measurement, Equipment
Instrument for measuring the index of d.c. magnets. L. Sipek. J. of Scientific Instruments, 42 (Dec 65) p.892-3. il. refs.
- ACCELERATORS, Proton
Related Headings:
CYCLOTRONS
SYNCHROTRONS, Proton
- ACCELERATORS, Proton, Cables, Insulation, Butyl rubber-Hypalon
Cabling for Nimrod: reasons for choosing butyl/hypalon. H. Hadley. Electrical Times, 147 (13 May 65) p.714-17. il. refs.
- ACCELERATORS, Proton, Electron tubes
Deca-megawatts of R.F. power—new approach. F. M. Russell. Electronic Components, 6 (May 65) p.418-23. il. refs.
- ACCELERATORS, Van der Graaff, Buildings, Prefabricated
Oxford tower for nuclear physics: architectural form and function achieved with precast units. Industrialised Building, 2 (Oct 65) p.62. il.
- ACCELEROMETERS
Comparison of strain gauge and accelerometer records. F. J. Griffin. Environmental Engng. (Nov 65) p.15-16
Development of accelerometers. R. C. Mehta. Electronics & Power, 11 (Sep 65) p.304-7. il. refs.
Measurement of vibration and acceleration. Instrument & Control Engng. (Jun 65) p.26-33. il.
- ACCELEROMETERS, Stress measurement, Wings, Aircraft. See AIRCRAFT, Wings, Stresses, Measurement, Accelerometers
- ACCESS, Random, Storage units, Computers. See COMPUTERS, Storage units, Random access
- ACCIDENT PRONENESS
Myth of accident proneness. E. E. Ghiselli. Brit. J. of Industrial Safety, 6 (Spring 65) p.256-9
- ACCIDENTS
Related Headings:
COLLISIONS
- ACCIDENTS, Aircraft. See AIRCRAFT, Accidents
- ACCIDENTS, Building. See BUILDING, Accidents
- ACCIDENTS, Coal mining. See COAL, Mining, Accidents
- ACCIDENTS, Firemen. See FIREMEN, Accidents
- ACCIDENTS, Industrial, Analysis, Statistics
Early warning system for accident analysis. Metallurgia, 72 (Sep 65) p.121-2. il.
Early warning system for accident analysis. Steel Times, 191 (22 Oct 65) p.530-1. il.
- ACCIDENTS, Motor cars. See MOTOR CARS, Accidents
- ACCIDENTS, Motor vehicles. See MOTOR VEHICLES, Accidents
- ACCIDENTS, Motorways. See MOTORWAYS, Accidents
- ACCIDENTS, Quarrying. See QUARRYING, Accidents
- ACCIDENTS, Railways. See RAILWAYS, Accidents
- ACCIDENTS, Road tankers. See TANKERS, Road, Accidents
- ACCIDENTS, Roads. See ROADS, Accidents
- ACCIDENTS, Transport, Coal mining. See COAL, Mining, Transport, Accidents
- ACCOUNTING MACHINES
Auditor and electronic data processing (summary) A. B. Frielink. Computer J., 8 (Jul 65) p.95-7
Increased computing power for the smaller business. Data Processing, 7 (Jul/Aug 65) p.202-7. il.
Keyboard accounting at electronic speed [Olivetti Mercator] Data Processing, 7 (May/Jun 65) p.122-7. il.
NCR 31 accounting machine. Engineering, 199 (1 Jan 65) p.18-19. il.
NCR 395: new data processing system for the smaller business organisation. Data Processing, 7 (Nov/Dec 65) p.348-53. il.
- ACCOUNTING MACHINES
Related Headings:
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- ACCOUNTING MACHINES, Manufactures, Inspection
Quality assurance at Burroughs. Light Production Engng., 3 (Apr 65) p.4-6. il.

- ACCOUNTING MACHINES, Operation, Bus transport. See BUSES, Transport, Operation, Accounting machines
- ACCUMULATORS, Hydraulic. See HYDRAULIC ACCUMULATORS
- ACCUMULATORS, Hydro-pneumatic. See HYDRO-PNEUMATIC ACCUMULATORS
- ACCUMULATORS, Hydro-pneumatic, Roll stabilisers, Ships. See SHIPS, Roll stabilisers, Accumulators, Hydro-pneumatic
- ACCUMULATORS, Refrigeration. See REFRIGERATION, Accumulators
- ACETAL RESINS**
Acetal resins. Applied Plastics, 8 (Aug 65) p.50-2. il.
- ACETAL RESINS, Containers, Packaging, Aerosols. See AEROSOLS, Packaging, Containers, Acetal resins
- ACETAL RESINS, Copolymers**
Processing and applications of acetal copolymer. H. Schmidt. Brit. Plastics, 38 (Oct 65) p.608-13. il.
- Properties of acetal copolymer. H. Schmidt. Brit. Plastics, 38 (Sep 65) p.546-51. il. refs.
- ACETAL RESINS, Copolymers, Manufactures**
Alkon acetal copolymers: processing techniques. S. J. Barker. Plastics, 29 (Dec 64) p.71-74. il.
- ACETAL RESINS, Engineering**
'Alkon' in engineering. S. J. Barker. Rubber & Plastics Age, 46 (Sep 65) p.1000+. il. refs.
- ACETAL RESINS, Gears. See GEARS, Acetal resins
- ACETANILIDE, Condensation, *n*-Butyllithium**
Condensations at the methyl group of acetanilide and 6-methyl-2(1)-pyridone by means of *n*-butyl lithium. R. L. Gay, S. Boatman & C. R. Hauser. Chemistry & Industry (23 Oct 65) p.1789-90. il. refs.
- ACETATES, Effect on malt production. See MALT, Production, Effect of acetates
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- ACID DYES, Dyeing, Cotton, Fabrics. See FABRICS, Cotton, Dyeing, Dyes, Acid
- ACID DYES, Wool. See WOOL, Dyes, Acid
- ACID NUMBER, Determination, Fatty alcohols production, Fatty acids. See FATTY ALCOHOLS (Production, Fatty acids) Determination of acid number
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AMINO ACIDS
ASCORBIC ACID
BENZENECARBOXYLIC ACIDS
BICYCLO [2.2.2] OCTENEBORONIC ACIDS
CARBOXYLIC ACIDS
CHROMIC ACID
CHRYSANTHEMIC ACID
CITRIC ACID
CYCLOBUTANE-1,2-DICARBOXYLIC ACIDS
CYCLOPROPYL-1-HYDROXY-2-NAPHTHYLACETIC ACID
DI-(2-AMINOETHOXY)-ETHANETETRAACETIC ACID
4,4'-DIAMINOSTILBENE-DISULPHONIC ACIDS
2 α ,3 η -DIHYDROXYURS-12-EN-28-OIC ACID
E.D.T.A.
FORMIC ACID
HULUPUNIC ACID
HUMIC ACIDS
HYDROBENZOIC ACIDS
HYDROCHLORIC ACID
HYDROFLUORIC ACID
3, HYDROXY-3-PHENYLVALERIC ACID
INORGANIC ACIDS
LACTIC ACID
LINOLEIC ACID
LINOLENIC ACID
M.C.P.
MALEIC ACID
MALEIC ANHYDRIDE

ACIDS

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3-METHYLCYCLOPENT-2-ENONE-ACETIC ACID
 NICOTINIC ACID
 NITRIC ACID
 NITRILOTRIACETIC ACID
 NUCLEIC ACIDS
 ORGANIC ACIDS
 PENTADECANOLIDE
 PERCHLORIC ACID
 PEROXYACETIC ACID
 PHENYLARSONIC ACID
 PHENYLAZOBENZENESULPHONIC ACID
 PHOSPHORIC ACID
 PHTHALIC ACID
 PYRUVIC ACID
 SALICYLIC ACID
 SORBIC ACID
 SULPHURIC ACID
 2,6,10,14-TETRAMETHYLPENTADECANOIC ACID
 3,7,11,15-TETRAMETHYLHEXADECANOIC ACID
 THIAZOLIDINE-4-CARBOXYLIC ACID
p-TOLUENESULPHONIC ACID
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 ACIDS, Cysteine derivatives. See CYSTEINE, N-acid derivatives
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 ACIDS, Peeling, Vegetables. See VEGETABLES, Peeling, Acids
 ACIDS, Solutions, Copper anodes. See ANODES, Copper, Acid solutions
 ACIDS, Solutions, Corrosion, Mild steel. See STEEL, Mild, Corrosion, Acid solutions
 ACIDS, Solutions, Corrosion, Nickel. See NICKEL, Corrosion, Acid solutions
 ACIDS, Solutions, Dissolution, Thallium. See THALLIUM, Dissolution, Acid solutions
 ACIDS, Solutions, Electrolytes. See ELECTROLYTES, Solutions, Acids
 ACIDS, Solutions, Passivation, Iron. See IRON, Passivation, Acid solutions
 ACIDS, Solutions, Rotating discs, Metal anodes. See ANODES, Metals, Rotating discs, Acid solutions
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 ACME THREADS, Nuts. See NUTS, Threads, Acme
 ACORN BANK
 See
 COAL, Mining, Opencast, Acorn Bank
 ACOUSTIC RESONATORS. See RESONATORS, Acoustic
 ACOUSTICS. See SOUND
 ACOUSTICS, Auditoriums. See AUDITORIUMS, Acoustics
 ACOUSTICS, Buildings. See BUILDINGS, Acoustics
 ACOUSTICS, Concert halls. See CONCERT HALLS, Acoustics
 ACOUSTICS, Drums. See DRUMS, Musical instruments, Acoustics
 ACOUSTICS, Flutes. See FLUTES, Acoustics
 ACOUSTICS, Houses. See HOUSES, Acoustics
 ACOUSTICS, Libraries. See LIBRARIES, Acoustics
 ACOUSTICS, Musical instruments. See MUSICAL INSTRUMENTS, Acoustics
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 ACRYLIC PAINT, Lighting fittings. See LIGHTING, Fittings, Paint, Acrylic
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ADHESION, Metals, Coatings. See COATINGS, Metals, Adhesion

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ADHESION, Wheels, Electric locomotives. See LOCOMOTIVES, Electric, Wheels, Adhesion

ADHESION, Wheels, Locomotives. See LOCOMOTIVES, Wheels, Adhesion

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ADHESIVES, Gliders. See GLIDERS, Adhesives

ADHESIVES, Joints, Metals, Pipes. See PIPES, Metal, Adhesives, Labels, Food. See FOOD, Labels, Adhesives

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AIR TRANSPORT

Related Headings:
AIRPORTS

AIR TRANSPORT—SUBHEADINGS—Synopsis

*This synopsis shows, in italic, related subheadings which
are separated in the alphabetical sequence following.*

Particular countries & routes

Great Britain
Midlands
Great Britain-France
Europe
Netherlands
West Germany
Spain
Asia
Middle East
Cyprus
Kuwait
Iran
Thailand
Far East
Africa
Egypt
Atlantic Ocean
North America
U.S.A.
South America
Brazil
Australia
New Zealand

Education
Costs

AIR TRANSPORT—SUBHEADINGS—Synopsis—cont.

Equipment & Facilities

Computers

Radio

Teleprinting

Catering

Operations

Operational research

Flight planning

Seat reservation

AIR TRANSPORT, Atlantic Ocean

Survival of the cheapest: Loftheidir. J. Fricker. *Aeroplane & Commercial Aviation News*, 110 (8 Jul 65) p.4-6. il.

AIR TRANSPORT, Australia

Australia—ideal environment for air transport. D. Rendel. *Aeroplane & Commercial Aviation News*, 109 (28 Jan 65) p.14-16. il.

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AIR TRANSPORT, Brazil

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What future for the Ponte Aérea? P. Clegg. *Aeroplane & Commercial Aviation News*, 110 (19 Aug 65) p.4-6. il.

AIR TRANSPORT, Catering

Catering for change. *Aeroplane & Commercial Aviation News*, 110 (28 Oct 65) suppl. p.4-5. il.

Satisfying the passenger. *Aeroplane & Commercial Aviation News*, 110 (28 Oct 65) suppl. p.14+. il.

AIR TRANSPORT, Computers

Tools of airline management. J. T. Dyment. *J. of R. Aeronautical Soc.*, 69 (Jan 65) p.9-26. il.

AIR TRANSPORT, Costs

An airline view. R. H. Whitby. *J. of R. Aeronautical Soc.*, 69 (Nov 65) p.732-7. il.

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AIR TRANSPORT, Cyprus

New era for Cyprus Airways. *Aeroplane & Commercial Aviation News*, 110 (25 Nov 65) p. 10

AIR TRANSPORT, Education

Academy for aeronauts. *Aeroplane & Commercial Aviation News*, 109 (15 Apr 65) p.24-5. il.

AIR TRANSPORT, Egypt

United Arab reorganizes. M. Lumb. *Aeroplane & Commercial Aviation News*, 110 (9 Sep 65) p.4-5. il.

AIR TRANSPORT, Far East

Cathay Pacific Airways. L. Taylor. *Flight*, 86 (24 Dec 64) p.1079-82. il.

AIR TRANSPORT, Flight planning, Computers

Computer flight planning [Swissair] R. E. Boyd. *Aeroplane & Commercial Aviation News*, 110 (15 Jul 65) p.22+. il.

AIR TRANSPORT, Freight. See FREIGHT, Transport, Air**AIR TRANSPORT, Great Britain**

Domestic air routes. S. Hulse. *Official Architecture & Planning*, 28 (Feb 65) p.200-1. il.

Independents and the new policy. *Flight*, 87 (25 Feb 65) p.278-80. il.

Scheduling of commercial air movements: the airline point of view. R. Watts. *J. of R. Aeronautical Soc.*, 69 (Apr 65) p.216-18

AIR TRANSPORT, Great Britain—cont.

Strength of England [Presidential address to the Engineering Section of the British Association] B. N. Wallis. *Engineering*, 200 (3 Sep 65) p.293-7. il. refs.

Subsonic challenge, pt.2: case for an inter-city airbus. D. Fishlock. *New Scientist*, 25 (7 Jan 65) p.35-6. il.

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AIR TRANSPORT, Iran

Iran National Airlines. D. May. *Flight*, 87 (14 May 65) p.51-3. il.

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Re-shaping KLM. P. Clegg. *Aeroplane & Commercial Aviation News*, 109 (14 Jan 65) p.15-17. il.

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AIR TRANSPORT, Operational research

Operational research and aviation management, pt.1: introduction to operational research. R. R. P. Jackson & P. A. Longton. *J. of R. Aeronautical Soc.*, 69 (Aug 65) p.543-52. il. refs.

Operational research and aviation management, pt.2: procurement and capital investment programmes. P. A. Longton & A. T. Williams. *J. of R. Aeronautical Soc.*, 69 (Sep 65) p.601-10. il. refs.

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AIR TRANSPORT, Radio

Ground facilities for air communications. J. L. Roberts. *World Aerospace Systems*, 1 (Mar 65) p.140-1. il.

AIR TRANSPORT, Radio, Stations, Sea

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Ocean platform and submarine cable system for the North Atlantic. K. A. Wood. *J. of Inst. of Navigation*, 18 (Oct 65) p.437-45. il.

Radio stations planned for mid-Atlantic. *Engineering*, 199 (23 Apr 65) p.558. il.

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Real-time aircraft seat reservation: first stage in B.E.A.'s plan for computer-orientation of airline activities. *Control*, 9 (Sep 65) p.511. il.

AIR TRANSPORT, Seat reservation, Telephony, Call queueing

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AIR TRANSPORT, Spain

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AIR TRANSPORT, Teleprinting, Control systems, Computers
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AIR TRANSPORT, Thailand

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AIR TRANSPORT, Traffic control

ATC: always a civil second-best? D. H. R. Archer. World Aerospace Systems, 1 (Jan 65) p.9+. il.

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AIR TRANSPORT, Traffic control

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AIRCRAFT, Supersonic, Traffic control

AIR TRANSPORT, Traffic control, Communications

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AIR TRANSPORT, Traffic control, Electronic equipment

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AIR TRANSPORT, Traffic control, North Atlantic

A.T.C. survey of North Atlantic navigation problems. J. of Inst. of Navigation, 18 (Oct 65) p.411-36. il. refs.

AIR TRANSPORT, Traffic control, Radar

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AIR TRANSPORT, Traffic control, Radar, Displays, Map plates

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AIR TRANSPORT, Traffic control, Radar, Secondary

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AIR TRANSPORT, Traffic control, Radio

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AIR TRANSPORT, Traffic control, Separation

Approach to the problem of estimating safe separation standards for air traffic. K. H. Treweek. J. of Inst. of Navigation, 18 (Jul 65) p.285-96. il. refs.

AIR TRANSPORT, Traffic control, Simulators

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Braniff International Airways. A. Norman. Flight, 87 (22 Apr 65) p.636-9. il.

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AIR TRANSPORT, West Germany

Late starter makes good: Deutsche Lufthansa. P. Ray. Aeroplane & Commercial Aviation News, 109 (15 Apr 65) p.4-6. il.

AIR TRANSPORT AUXILIARY. See ROYAL AIR FORCE, Air Transport Auxiliary

AIR—WATER, Flow, Annular, Pipes, Vertical

Data on the upwards annular flow of air-water mixtures.

L. E. Gill, G. F. Hewitt & P. M. C. Lacey. Chemical Engng. Science, 20 (Feb 65) p.71-88. il. refs.

Upwards annular two-phase air/water flow in vertical tubes. I. J. Willis. Chemical Engng. Science, 20 (Oct 65) p.895-902. il. refs.

AIR—WATER, Partition coefficients, Aldehydes. See ALDEHYDES, Partition coefficients, Air—Water

AIRCRAFT

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From sonic to supersonic (extract) Sir William P. Hildred.

J. of Soc. of Licensed Aircraft Engrs. & Technologists, 3 (Jun 65) p.8-10

From supersonics to sub-orbiters: excerpts from "Aviation in perspective." E. Heinemann. Flight, 86 (24 Dec 64) p.1096-7. il.

New generation of short-haul jets. Engineering, 199 (26 Mar 65) p.396-7. il.

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Strength of England, pt.2: the air. B.N. Wallis.

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Towards the airbus [Handley Page] C. F. Joy. Aeroplane & Commercial Aviation News, 109 (1 Apr 65) p.17-18. il.

25 years of developments in aviation. C. V. Lezard. Engrs'. Digest, 26 (Jun 65) p.333+. il.

AIRCRAFT

Related Headings:

AERODROMES

AERODYNAMICS

AEROFOILS

BALLOONS

FLYING

FLYING BOATS

GLIDERS

HELICOPTERS

PARACHUTES

AIRCRAFT—SUBHEADINGS—Synopsis

This synopsis shows, in *italic*, related subheadings which are separated in the alphabetical sequence following.

History
 Research
 Models
 Museums

Problems
 Safety
 Accidents
 Fires
 Aerodynamics
 Turbulence
 Stability
 Static stability
 Momentum balance
 Spinning
 Stalling
 Stick pushers
 Flutter
 Vibrations
 Noise
 Icing

Operations
 Engineering
 Design
 Servicing
 Manufactures
 Fuelling
 Fuel
 Gasoline
 Navigation

Components & Systems
 Components
 Equipment
 Tubes
 Structures
 Wings
 Undercarriages
 Tyres
 Cabins
 Interior design
 Floors
 Cockpits
 Seats
 Windows
 Gallies
 Ejection seats
 Engines
 Gas turbines
 Coatings
 Cladding
 Vibration isolators

Systems
 Hydraulic systems
 Hydraulic accumulators
 Electrical equipment
 Electrical machinery
 Static eliminators
 Electronic systems
 Radio equipment
 Data transmission
 Teleprinters
 Navigation systems
 Compasses
 Astro-tracking
 Computers

AIRCRAFT—SUBHEADINGS—Synopsis—cont.

Controls
 Air brakes
 Air conditioning
 Pressurisation
 Oxygen systems
 Entertainment
 Music systems
 Instruments
 Clocks

Performance
 Speed
 Reliability

Kinds of aircraft
 Hypersonic
 Supersonic
 Vertical take off
 Short take off
 Rocket powered
 Light
 Rotating wing
 Delta wing
 Tailless
 Double deck
 Radioactive
 Amphibian
 Military
 Naval
 Types

Ancillaries
 Ground power units

AIRCRAFT, Accidents

Accident survival. Aeroplane & Commercial Aviation News, 110 (29 Jul 65) p.15-22. il.
 Bonanza F-27 crash report. Aeroplane & Commercial Aviation News, 110 (9 Dec 65) p.14. il.
 British safety record. Flight, 88 (26 Aug 65) p.330-1
 Fewer fatalities. Aeroplane & Commercial Aviation News, 109 (8 Apr 65) p.32
 Miami "upset" disaster investigated. Flight, 88 (15 Jul 65) p.84-5. il.

AIRCRAFT, Accidents, Investigation

Air accidents: detection and solution: summary of "Scientific investigation of aircraft accidents". P. B. Walker. Engineering, 199 (15 Jan 65) p.73-5. il.
 Scientific investigation of aircraft accidents. P. B. Walker. Aircraft Engng., 37 (Feb 65) p.38-44. il.
 Scientific investigation of aircraft accidents. P. B. Walker. J. of Soc. of Licensed Aircraft Engrs. & Technologists, 3 (Dec 65) p.21-7. refs.

AIRCRAFT, Accidents, Investigation, Dogs

Novel aid to accident investigation. W. E. Reid. World Aerospace Systems, 1 (Apr 65) p.190-1. il.

AIRCRAFT, Agricultural chemicals spreading. See AGRICULTURAL CHEMICALS, Spreading, Aircraft

AIRCRAFT, Air brakes

Air brakes and thrust reversers. Aircraft Engng., 37 (Sep 65) p.266

AIRCRAFT, Air conditioning

Air conditioning in aircraft. W. D. Sanders. Heating & Air Conditioning, 34 (Jan 65) p.22-6. il.

AIRCRAFT, Air conditioning, Control systems

Design and development of aircraft environmental control systems. World Aerospace Systems, 1 (Jan 65) p.34-6. il.

AIRCRAFT, Air conditioning, Environmental testing, Equipment

Environmental test facilities for aircraft air conditioning systems. H. W. Groves. *World Aerospace Systems*, 1 (Apr 65) p.170-2. il.

Environmental testing of aircraft air conditioning systems. Modern Refrigeration, 68 (Apr 65) p.349-50. il.

AIRCRAFT, Air conditioning, Refrigeration

Vapour cycle cooling systems for aircraft. M. Minogue. Modern Refrigeration, 68 (Sep 65) p.825+. il.

AIRCRAFT, Air conditioning, Refrigerators, Compressors

Adventurous spirit in refrigerating engineering, pt.3: use of a small, lightweight screw compressor in an airborne conditioning role [Sir George Godfrey & Partners Ltd.] *J. of Refrigeration*, 8 (Oct 65) p.311-14. il.

AIRCRAFT, Amphibian

Lake LA-4 amphibian. *Flight*, 87 (14 Jan 65) p.65-8. il.

AIRCRAFT, Astro-tracking

Automatic star-trackers for long-range navigation. R. D. Thomas & G. J. Shroyer. *J. of Inst. of Navigation*, 18 (Oct 65) p.482-97. il. refs.

AIRCRAFT, Bomber. See BOMBER AIRCRAFT**AIRCRAFT, Cabins**

Interior arrangements: describing the flight compartment and cabin, including positioning of instrumentation and the hold dimensions with layouts of typical loads [Skyvan] *Aircraft Engng.*, 37 (Jan 65) p.22-4. il.

AIRCRAFT, Cladding, Sheets, Aluminium, Alloys, Cold worked

Effect of intermediate cold work on the structure of Hiduminium-RR.58 alloy sheet. E. A. Fell & W. M. Doyle. *J. of Inst. of Metals*, 93 (May 65) p.316-18. il. refs.

AIRCRAFT, Clocks, Digital

Recording GMT in binary code on magnetic tape for aircraft data recording. R. A. Fell & I. A. M. Watson. *Horological J.*, 108 (Jul 65) p.27-31. il.

AIRCRAFT, Clocks, Digital read-out

Time-of-flight clock with digital readout. D. S. Evans & T. P. C. Cuss. *Control*, 9 (Jun 65) p.314-16. il.

AIRCRAFT, Coating

Inside and out: survey of current trends in aircraft paints, finishes and anti-corrosion processes. *Flight*, 88 (12 Aug 65) p.255-8. il.

AIRCRAFT, Cockpits

The cockpit [Hawker Siddeley HS.748] P. Bradshaw. *Aircraft Engng.*, 37 (Mar 65) p.99-100. il.

Hawker Siddeley Argosy: crew compartment and aircraft systems. *Aircraft Engng.*, 37 (Aug 65) p.250-7. il.

AIRCRAFT, Compasses, Adjustment, Electromagnetic

Compass swinging without rotating the aircraft [MC-1 Magnetic Compass Calibrator Set] D. H. Baker & M. Skaar. *J. of Inst. of Navigation*, 18 (Oct 65) p.475-82. il.

AIRCRAFT, Compasses, Gyro-magnetic

Perfection of the gyro-magnetic compass. R. J. Treadwell. *J. of Inst. of Navigation*, 18 (Jan 65) p.49-56. il. refs.

AIRCRAFT, Compasses, Gyro-magnetic, Testing

Testing a modern gyro-magnetic compass. J. D. Ackerman. *J. of Inst. of Navigation*, 18 (Jan 65) p.56-64. il. refs.

AIRCRAFT, Components, Aluminium

Aluminium in aircraft construction. *Aluminium Courier* (Mar 65) p.4-13. il.

AIRCRAFT, Components, Aluminium, Manufactures, Surface protection, Film, Plastics

Protective film prevents scratches now: corrosion later [Fablon] *Industrial Finishing*, 17 (Mar 65) p.52-3. il.

AIRCRAFT, Components, Copper

Copper in the Air. *Copper* (Winter 64) p.2-5. il.

AIRCRAFT, Components, Electroplating

Precision plating by Poeton [Poeton Plating Group] *Product Finishing*, 18 (Nov 65) p.61+. il.

Precision processing by Poeton. *Aircraft Engng.*, 37 (Jul 65) p.203. il.

AIRCRAFT, Components, Failure, Detection, Lubricating oils, Wear particles

Early failure detection in engines and gearboxes. *Engine Design & Applications*, 1 (Jul 65) p.38-40. il.

AIRCRAFT, Components, Failure, Detection, Lubricating oils, Wear particles, Collection, Magnetic

Early failure detection [Tedco Turbomeg] *Aeroplane & Commercial Aviation News*, 109 (27 May 65) p.25. il.

AIRCRAFT, Components, Failure, Detection, Lubricating oils, Wear particles, Spectroscopy, Emission

Spectrometric oil analysis. J. M. Ward. *J. of Soc. of Licensed Aircraft Engrs. & Technologists*, 3 (Jun 65) p.11-12

AIRCRAFT, Components, Machining, Control systems

Dunlop prove the economic feasibility of tape controlled machine tools. W. Long. *Brit. Machine Tool Engng.*, 47 (Autumn 65) p.18-25. il.

AIRCRAFT, Components, Machining, Jig borers, Control systems

Memory unit speeds batch jig boring [Societe Genevoise Hydroptic 6A] *Metalworking Production*, 109 (1 Dec 65) p.59-60. il.

AIRCRAFT, Components, Magnesium alloys

Magnesium alloys in aircraft accessories. L. Lasch. *Engng. Material and Design*, 7 (Dec 64) p.842-4. il.

AIRCRAFT, Components, Routing, Machines

Special routing machine [Grumman Apex Router] *Tooling*, 19 (Aug 65) p.49-50. il.

AIRCRAFT, Components, Shot-peening, Control systems

First numerically controlled shot peening machine developed by Vacu-Blast to toughen backbone of sweeping F.1.11. *J. of Soc. of Licensed Aircraft Engrs. & Technologists*, 3 (Jun 65) p.18-20. il.

Now—shot peening by numerical control [Vacu-Blast Co., Inc., of America] *Metalworking Production*, 109 (19 May 65) p.76-8. il.

Numerically controlled shot-peening machine [Vacu-Blast] *Aircraft Engng.*, 37 (Jul 65) p.201-2. il.

AIRCRAFT, Computers

On seeing the digital wood for the trees: true potential of airborne digital computers. M. Lambert. *Flight*, 88 (21 Oct 65) p.698-700. il.

AIRCRAFT, Controls

Future of power controls for aircraft. F. J. Fuell. *World Aerospace Systems*, 1 (Jan 65) p.20+. il.

AIRCRAFT, Data storage. See FLIGHT RECORDERS**AIRCRAFT, Data transmission, Radio, H.F., Frequency shift keying, Error correction**

Analysis of results obtained on an aircraft data link out to 1300 nautical miles (2400 km). W. J. Battell. *Radio & Electronic Engr.*, 30 (Aug 65) p.78-88. il. refs.

AIRCRAFT (Delta wing) Flying, Low speed

Low speed handling of a slender delta. J. M. Henderson. *J. of R. Aeronautical Soc.*, 69 (May 65) p.311-24. il. refs.

AIRCRAFT, Design

Aircraft design possibilities. R. H. Whitby. *J. of R. Aeronautical Soc.*, 69 (Apr 65) p.229-33. il.

AIRCRAFT, Design, Teaching

Teaching aircraft design at Cranfield. *Engineering*, 200 (9 Jul 65) p.39-40. il.

AIRCRAFT, Double-deck

Double deck for long haul. *Aircraft Engng.*, 37 (Jul 65) p.200

AIRCRAFT, Ejection seats

1000 lives saved: development of Martin-Baker ejection seats. *Aircraft Engng.*, 37 (May 65) p.140-52. il.

AIRCRAFT, Electrical equipment, Connectors

Electrical connectors, airborne. T. V. McDonald. *Engng. Designer* (Sep 65) p.7-13. il.

AIRCRAFT, Electrical equipment, Research

Research and development: aircraft equipment. A.E.I. *Engng.*, 5 (Jan/Feb 65) p.23-7. il.

AIRCRAFT, Electrical machinery, Bearings, Fretting, Repair, Electroplating, Tin

Tinning to prevent fretting: value to aircraft maintenance [Dolic process] J. of Soc. of Licensed Aircraft Engrs. & Technologists, 3 (Apr 65) p.13-14

AIRCRAFT, Electrical machinery, Cooling

New method of presenting cooling data for aircraft electrical machines. C. S. Hudson & M. H. Walshaw. Proc. of Instn. of Electrical Engrs., 112 (Jan 65) p.63-70. il. refs.

AIRCRAFT, Electronic systems

Light-weight electronics. Design Electronics, 2 (Jun 65) p.28-9. il.

Reliability of commercial airline electronics. F. Hoyle.

J. of Soc. of Licensed Aircraft Engrs. & Technologists, 3 (Apr 65) p.14-16

AIRCRAFT, Electronic systems, Checking equipment, Circuits, Printed, Epoxy resin—Glass fibre

Glass-epoxy laminates for aircraft checkout equipment [TRACE] Applied Plastics, 8 (Feb 65) p.26-7. il.

AIRCRAFT, Electronic systems, Components

Avionics—a moving target. R. Pretty. Electronics Weekly (19 May 65) p.17. il.

Electronic hardware aid for project engineers [Standard Telephones & Cables] World Aerospace Systems, 1 (Feb 65) p.105-7. il.

AIRCRAFT, Electronic systems, Reliability

Electronic systems reliability. J. of Soc. of Licensed Aircraft Engrs. & Technologists, 3 (Mar 65) p.16-19

Reliability: the logical foundation. D. Archer. World Aerospace Systems, 1 (Mar 65) p.142-4

AIRCRAFT, Engineering, Computers, Analogue

Analogue computing and simulation in the aircraft industry. R. Stephens. World Aerospace Systems, 1 (Mar 65) p.119+. il.

Scientific computation in aerospace research. P. A. R. Wright & C. P. Jansen. World Aerospace Systems, 1 (Mar 65) p.124-6. il. refs.

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ROADS, Alconbury

ALDEBURGH

See

FLATS, Old people, Aldeburgh

ALDEHYDES

Pioneers in aldehydes and ketones. M. Schofield. *Perfumery & Essential Oil Record*, 56 (Jul 65) p.451-2

ALDEHYDES, Nitrile production. See **NITRILES**, Production, Aldehydes

ALDEHYDES, Partition coefficients, Air—Water

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ALDEHYDES, Production, Methyl oleate, Autoxidation

'Unexpected' aldehydes in the oxidation products of octadecenoates. M. M. Horikx. *J. of Applied Chemistry*, 15 (Jun 65) p.237-43. il. refs.

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ALDERSHOT

See

POWER STATIONS, Aldershot

TOWN-PLANNING, Aldershot

ALESE-ELEME

See

PETROLEUM, Refineries, Alese-Eleme

ALFA ROMEO GIULIA SS CARS. See **MOTOR CARS**, Types, Alfa Romeo Giulia SS

ALFA ROMEO GIULIA TI CARS. See **MOTOR CARS**, Types, Alfa Romeo Giulia Ti

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ALGERIA

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ELECTRIC POWER SYSTEMS, Algeria

GAS, Natural, Production, Algeria

PETROLEUM, Production, Algeria

ALGERIA

See—cont.

PETROLEUM, Pipelines, Algeria

RAILWAYS, Algeria

ALGORITHMS, Bandwidth reduction, Sparse matrices. See

MATRICES, Sparse, Bandwidth reduction, Algorithms

ALGORITHMS, Quadratic programming. See QUADRATIC PROGRAMMING, Algorithms

ALGORITHMS, Scheduling, Production management. See

PRODUCTION, Management, Scheduling, Algorithms

ALICYCLIC KETONES. See KETONES, Alicyclic

ALIGNMENT, Optical. See OPTICAL ALIGNMENT

ALIGNMENT, Slideways, Machine tools. See MACHINE

TOOLS, Slideways, Alignment

ALIPHATIC COMPOUNDS

Related Headings :

ACETATES

ACETIC ACID

ACETONE

ACETYLENE

ALKYL TRIMETHYLAMMONIUM

ALKYLLITHIUM

ALLYL ETHERS

AMINES, Aliphatic

AMYL ALCOHOLS

BROMOPROPIONITRILE

BROMOSUCCINIMIDE

BUTADIENE

BUTANE

BUTYL ACETATE

BUTYL ALCOHOL

BUTYLLITHIUM

CHLOROFORM

CITRIC ACID

DEC-1-YNE

DIACETYL

N,N DIALKYLANILINES

DI-n-BUTYLAMINE

4,4-DICHLORO-3-BUTEN-1,2-DIOL

DIETHYL ETHER

 β -DIMETHYLMANINOETHYL CHLORIDE

2,5-DIMETHYL-PYRAZINE

DIMETHYL SULPHOXIDE

ETHANE

ETHANOLAMINE

ETHYL ACETATE

ETHYL ACRYLATE

ETHYL ALCOHOL

ETHYL AMMONIUM

ETHYL DITHIOCARBAMATE

ETHYLENE

ETHYLENE DIAMINE

ETHYLENE DICHLORIDE

ETHYLENE GLYCOL

ETHYL LINOLEATE

ETHYL LINOLEATE HYDROPEROXIDE

FATTY ACIDS

FATTY ESTERS

FORMALDEHYDE

GLYCEROL

HEPTANE

HEXANE

HYDROCARBONS, Aliphatic

 β -HYDROXYETHYL-METHYLANILINE

IODOPROPIONITRILE

ISOHEXANES

ISOOCTANE

ISOPROPYL SILICATE

LACTIC ACID

LINOLEIC ACID

LINOLENIC ACID

MALEIC ACID

ALIPHATIC COMPOUNDS

Related Headings—cont.

MALONALDEHYDE

MERCAPTANS

METHACRYLATES

METHANE

METHYL ALCOHOL

METHYL ESTERS

METHYL GROUPS

METHYL METHACRYLATE

METHYL OLEATE

METHYL PETROSILINATE

METHYLBUTENE

METHYLENE CHLORIDE

PARAFFINS

PENTANE

2,3-PENTANEDIONE

PENTANE

PERCHLOROETHYLENE

PERFLUORODIENE

PEROXYACETIC ACID

PHENYLISOBUTYRYL PEROXIDE

POLYETHENOID ACIDS

POTASSIUM ETHYL XANTHATE

PROPANE

PROPYL ALCOHOL

PROPYLENE GLYCOL

PYRUVIC ACID

SODIUM METHYLATE

SODIUM METHYLSULPHINYL CARBANION

SORBIC ACID

TETRAETHYL LEAD

TETRAMETHYL LEAD

3,7,11,15-TETRAMETHYLHEXADECANOIC ACID

2,6,10,14-TETRAMETHYLPENTADECANOIC ACID

TRIBUTYL PHOSPHATE

TRI-n-BUTYLAMINE

TRICHLOROETHYLENE

TRIETHYL ORTHOFORMATE

TRI-n-HEXYLAMINE

TRIMELLITIC ANHYDRIDE

TRIMETHYLPENTANE DIOL

TRINONYL AMINE

TRI-n-OCTYLAMINE

UROCANIC ACID

VINYL-iso-BUTYL ETHER

XANTHATES

ALIZARIN, Dyed cotton fabrics. See FABRICS, Cotton, Dyed, Alizarin

ALKALI ALUMINOGERMANATE GLASS. See GLASS, Alkali aluminogermanate

ALKALI AZIDES, Chemiluminescence, Ultraviolet radiation

Chemi-luminescence and chemi-electron emission from

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ALKALI METAL XANTHATES, Flotation, Chrysocolla. See CHRYSOCOLLA, Flotation, Alkali-metal xanthates

ALKALI NITRATES—ALKALINE EARTH NITRATES—SILVER NITRATE, Activity coefficients

Propriétés thermodynamiques des mélanges nitrate d'argent—nitrates des métaux des groupes I et II. M. Bakès, J. Guion & J. P. Brenet. *Electrochimica Acta*, 10 (Oct 65) p.1001-12. il. refs.

ALKALI NITRATES—SILVER NITRATE, Activity coefficients

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ALKALI SILICATES—ZINC, Paint. See PAINT, Zinc—Alkali silicates**ALKALINE EARTH CHLORIDES, Electrolytes, Fluidity, Effect of solute concentration**

Effect of solute concentration on fluidity and structure in aqueous solutions of electrolytes, pt.2: alkaline earth chlorides, cupric chloride and ferric chloride. W. Good. *Electrochimica Acta*, 10 (Jan 65) p.1-10. il. refs.

ALKALINE EARTH COMPLEXES, Di-(2-aminoethoxy)-ethane-tetraacetic acid. See DI-(2-AMINOETHOXY)-ETHANE-TETRAACETIC ACID, Alkaline earth complexes**ALKALINE EARTH NITRATES—SILVER NITRATE—**

ALKALI NITRATES. See ALKALI NITRATES—ALKALINE EARTH NITRATES—SILVER NITRATE

ALKALIS

Related Headings:

AMMONIA

CAUSTIC SODA

ALKALIS, Absorption, Carbonyl sulphide. See CARBONYL SULPHIDE, Absorption, Alkalis**ALKALIS, Catalysts, Urea formaldehyde, Finishing, Fabrics. See FABRICS, Finishing, Urea formaldehyde, Catalysts, Alkaline****ALKALIS, Hydroxide solutions, Hydrogen sulphide absorption. See HYDROGEN SULPHIDE, Absorption, Alkali hydroxide solutions****ALKALIS, Solutions, Aluminium—Zinc anodes. See ANODES, Aluminium—Zinc, Alkaline solutions****ALKALIS, Solutions, Bromopionitrile. See BROMOPIONITRILE, Alkaline solutions****ALKALIS, Solutions, High temperature, Oxidation, Iron. See IRON, Oxidation (High temperature) Alkaline solutions****ALKALIS, Solutions, Hydrolysis, Glycine ethyl ester. See GLYCINE ETHYL ESTER, Hydrolysis, Alkaline solutions****ALKALIS, Solutions, Hydrolysis, Reactive dyes. See DYES, Reactive, Hydrolysis, Alkali solutions****ALKALIS, Solutions, Iodopropionitrile. See IODOPROPIONITRILE, Alkaline solutions****ALKALIS, Solutions, Passivation, Iron. See IRON, Passivation, Alkaline solutions****ALKALIS, Solutions, Phenylazobenzenesulphonic acid. See PHENYLAZOBENZENESULPHONIC ACID, Alkaline solutions****ALKALIS, Solutions, Sieve plates, Absorption, Carbon dioxide. See CARBON DIOXIDE, Absorption (Sieve plates) Alkali solutions****ALKALOIDS**

Related Headings:

2-ACYLINDOLE

APOYOHIMBINE

ATHEROSPERMOLINE

ATROPINE

CAFFEINE

CATHAROSINE

DITERPENE ALKALOIDS

ERGOT

HUNERIA UMBELLATA, Seeds

ORMOSININE

ALKALOIDS

Related Headings—cont.

PANAMINE

RETULINE

VINCAMINE

ALKANES. See PARAFFINS**ALKENES. See OLEFINS****ALKOXY TIN COMPOUNDS, Production, Tin tetrahalides, Reaction with halogenated ethylene, Photochemical**

Alkoxy-tin compounds by photochemical reactions. K. Taugbol & L. Stige. *Chemistry & Industry* (6 Nov 65) p.1867-8. refs.

ALKYD RESINS, Coatings, Tinplate. See TINPLATE, Coatings, Alkyd resins**ALKYD RESINS, Paint. See PAINT, Alkyd resins****ALKYLARYL SULPHONATES, Production, Dodecylbenzene, Sulphonation, Plant**

Small-scale detergent manufacturing plants. E. Rotstein & T. J. Rotstein. *Chemical & Process Engrg.*, 46 (Jun 65) p.298+. il. refs.

ALKYLATION, Agents, Determination, Spectrophotometry, Reagents, Dinitrobenzene

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ALKYLATION, Agents, Determination, Spectrophotometry, Reagents, 4-Picoline

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ALKYLATION, 1, 2, 6-THIADIAZINE 1, 1-DIOXIDES. See

1, 2, 6-THIADIAZINE 1, 1-DIOXIDES, Alkylation

ALKYLLITHIUM, Initiators, Polymerisation, Polybutadiene production. See POLYBUTADIENE, Production, Polymerisation, Initiators, Alkyl lithium**ALKYLLITHIUM, Initiators, Polymerisation, Polystyrene production. See POLYSTYRENE, Production, Polymerisation, Initiators, Alkyl lithium*****n*-ALKYLTRIMETHYLAMMONIUM, Adsorption, Sulphuric acid solutions, Mercury, Electrodes. See ELECTRODES, Mercury, Sulphuric acid solutions, *n*-Alkyltrimethylammonium adsorption****ALLBETONG SYSTEM, Prefabrication, Flats. See FLATS, Prefabrication, Allbetong system****ALLEN CLARK RESEARCH CENTRE, Plessey Company. See PLESSEY COMPANY, Allen Clark Research Centre, Caswell****ALLOYS**

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INTERMETALLIC COMPOUNDS

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ALLOYS, Blades, Gas turbines. See GAS TURBINES, Blades, Alloys**ALLOYS (Casting) Blades, Gas turbines, Aircraft. See AIRCRAFT, Gas turbines, Blades, Alloys (Casting)****ALLOYS, Castings, Testing, Ultrasonics**

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ALLOYS, Dispersion

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CHROMIUM-CHROMIC OXIDE

NICKEL-THORIA

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ALLOYS (Dispersion) Copper, Electrical conductors. See CONDUCTORS, Electrical, Copper, Alloys (Dispersion)

ALLOYS (Dispersion) Lead. See LEAD, Alloys (Dispersion)

ALLOYS, Electroplating. See ELECTROPLATING, Alloys

ALLOYS, Eutectic. See EUTECTIC ALLOYS

ALLOYS, Eutectic, Aluminium-silicon. See ALUMINIUM-SILICON, Eutectic alloys

ALLOYS, Eutectic, Aluminium-Zinc. See ALUMINIUM-ZINC, Eutectic alloys

ALLOYS, Eutectic, Copper-Aluminium. See ALUMINIUM-COPPER, Eutectic alloys

ALLOYS, Eutectic, Iron-Carbon. See IRON-CARBON, Eutectic alloys

ALLOYS, Eutectic, Silicon-Carbon-Iron. See IRON-CARBON-SILICON, Eutectic alloys

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ALPHA RADIATION, Counters. See COUNTERS, Alpha particle

ALTERNATING CURRENT. See A.C.

ALTERNATING DIRECTION IMPLICIT METHODS, Numerical solutions, Partial differential equations. See DIFFERENTIAL EQUATIONS, Partial, Numerical solutions, Alternating direction implicit methods

ALTERNATING POLARISATION, Caustic soda solutions, Copper-Tin, Electrodes. See ELECTRODES, Copper-Tin, Caustic soda solutions, Polarisation, Alternate

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ALTERNATORS

Related Headings:

GENERATORS, Electrical, Induction

MOTOR ALTERNATORS

TURBO-ALTERNATORS

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ALTERNATORS, Waste heat, District heating. See DISTRICT HEATING, Waste heat, Alternators**ALTERNATORS, Water turbines, Governors**

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ALTERNATORS, Water turbines, Simulation, Computers, Analogue

Simulation of a water turbine on an analogue computer. H. Schiott & J. Winther. Water Power, 17 (Oct 65) p.410-12. il.

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ALTIMETERS, Digital read-out, Ergonomics

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ALTRINCHAM

See

SHOPPING CENTRES, Altrincham

ALUMINA

Related Headings:
CORUNDUM

ALUMINA, Cement. See CEMENT, Aluminous**ALUMINA, Ceramics**

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Britain's largest ceramic grinding shop [Sintox: Colne factory of S. Smith & Sons (England) Ltd.] T. Marles. Industrial Diamond Rev., 25 (Jun 65) p.246-9. il.

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ALUMINA, Crystals, Single, Conductivity, Electrical, High temperature

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ALUMINA, Films. See FILMS, Alumina**ALUMINA, Powders. See POWDERS, Alumina****ALUMINA, Precipitated, Surface properties, Effect of chlorides, Studies, Isotope exchange**

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British Aluminium Co. Ltd.: Newport alumina plant. Chemistry & Industry (26 Jun 65) p.1130-2. il.

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$12\text{CaO} \cdot 7\text{Al}_2\text{O}_3$ phase in the $\text{CaO}-\text{Al}_2\text{O}_3$ system. R. W. Nurse, J. H. Welch & A. J. Majumdar. Trans. of Brit. Ceramic Soc., 64 (Jun 65) p.323-32. il. refs.

ALUMINA-LIME, Phase equilibria, Determination, Microscopy, High temperature

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ALUMINISED ASBESTOS, Protective clothing, Ceramic manufactures. See CERAMICS, Manufactures, Protective clothing, Asbestos, Aluminised**ALUMINISED STEEL, Sheets. See SHEETS, Steel, Aluminised****ALUMINIUM**

Aluminium and its alloys in 1964: some aspects of research and technical progress reported. E. Elliott. Metallurgia, 71 (Feb 65) p.61-6. il. refs.

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Developments in the aluminium industry. S. E. Clotworthy. Engrs' Digest, 26 (Jun 65) p.85+. il.

ALUMINIUM-SUBHEADINGS-Synopsis

This synopsis shows, in *italic*, related subheadings which are separated in the alphabetical sequence following.

Research**Testing****Physico-chemical aspects**

Temperature

Electronic structure

Interatomic potential

Hall effect

Magnetoresistance

Irradiation

Creep

Crystals

Corrosion

Helium diffusion

Determination

Technical processes**Production****Manufactures**

Powder metallurgy

Melting

Casting

Die casting

Rolling

Extrusion

Heat treatment

Recrystallisation

Joining

Soldering

Adhesives

Finishing

Anodising

Electroplating

Storage

ALUMINIUM—SUBHEADINGS—Synopsis—cont.

Kinds of aluminium

Cold worked
Welded
Annealed
Quenched
Zone refined
Coated
Shock loaded

Fields of application

Building materials
Electronic engineering

Alloys

ALUMINIUM, Adhesives, Synthetic resins

Structural bonding of aluminium. *Machinery*, 107 (7 Jul 65) p.40-2. il.

ALUMINIUM, Aircraft components. See **AIRCRAFT, Components, Aluminium**

ALUMINIUM, Alloys, Adhesives

Aluminium in practice, no.37—structural bonding of aluminium. *Aluminium Courier* (Mar 65) p.19-23. il.

ALUMINIUM, Alloys, Ageing, Rate, Effect of creep

Effect of creep strain on the ageing of two aluminium alloys intended for elevated-temperature service. M. G. Bader & J. Fry. *J. of Inst. of Metals*, 93 (Nov 65) p.545-6. il. refs.

ALUMINIUM, Alloys, Aircraft structures. See **AIRCRAFT, Structures, Aluminium alloys**

ALUMINIUM, Alloys, Angle. See **ANGLE, Aluminium alloys**

ALUMINIUM, Alloys, Baffles, Air intakes, Turbojets, Military aircraft. See **AIRCRAFT, Military, Turbojets, Air intakes, Baffles, Aluminium alloy**

ALUMINIUM, Alloys, Binary, Magnetic susceptibility, Determination, Specific heat, Low temperature

Magnetic and thermal properties of some aluminium-rich binary alloys. H. J. Blythe, T. M. Holden, M. Dixon & F. E. Hoare. *Philosophical Magazine*, 11 (Feb 65) p.235-50. il. refs.

ALUMINIUM, Alloys, Calandrias, Steam generating, Heavy water moderated reactors. See **NUCLEAR REACTORS, Heavy water moderated, Steam generating, Calandrias, Aluminium, Alloys**

ALUMINIUM, Alloys (Casting)

Aluminium alloys for use in the foundry. K. G. Latimer & A. W. Walker. *Brit. Foundryman*, 58 (Sep 65) p.354-62. il. refs.

ALUMINIUM, Alloys, Cathodic protection, Effect of pH

Electrical technique protects aluminium. *Corrosion Prevention & Control*, 12 (Mar 65) p.26-7. il.

ALUMINIUM, Alloys, Chassis, Commercial vehicles. See **VEHICLES, Commercial, Chassis, Aluminium, Alloys**

ALUMINIUM, Alloys, Corrosion (Hydrochloric acid)**Inhibitors, Di-n-butylamine**

Di-n-butylamine as an inhibitor for the corrosion of aluminium alloy in hydrochloric acid solutions. V. K. V. Unni & T. L. Rama Char. *Corrosion Prevention & Control*, 12 (Jan 65) p.17-18. refs.

ALUMINIUM, Alloys, Corrosion (Hydrochloric acid) Inhibitors, Tri-n-Butylamine

Tri-n-butylamine as an inhibitor for the corrosion of an Al-alloy in HCl. V. K. V. Unni & T. L. Rama Char. *Corrosion Science*, 4 (Dec 64) p.453-5. refs.

ALUMINIUM, Alloys, Corrosion, Mercury

Effect of alloying constituents in aluminium on the corrosive attack by mercury. F. M. Beard & R. A. Hine. *Brit. Corrosion J.*, 1 (Nov 65) p.98-101. il. refs.

ALUMINIUM, Alloys, Cracks, Stress corrosion, Cathodic protection

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ALUMINIUM, Alloys, Creep, Recovery

Creep recovery of aluminium alloy DTD 2L42. J. Henderson & J. D. Snedden. *Applied Materials Research*, 4 (Jul 65) p.148-67. il. refs.

ALUMINIUM, Alloys, Creep rupture

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ALUMINIUM, Alloys, Crystals, Single, Production

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Advanced furnace facility boosts aluminium diecasting production [Bridge Foundry Co. Ltd., Wednesbury, Staffordshire] *Light Metals & Metal Industry*, 28 (Aug 65) p.42-4. il.

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ALUMINIUM, Alloys, Engines, Motor vehicles. See **MOTOR VEHICLES, Engines, Aluminium alloys**

ALUMINIUM, Alloys, Fatigue, Effect of moisture

Fatigue of aluminium. *Metal Treatment*, 32 (May 65) p.182-3. il. refs.

ALUMINIUM, Alloys, Fatigue, Testing

Large scale fatigue test of aluminium specimens. N. T. Bloomer & T. F. Roylance. *Aeronautical Q.*, 16 (Nov 65) p.307-22. il. refs.

ALUMINIUM, Alloys, Fibres—Epoxy resin. See **EPOXY RESIN—ALUMINIUM ALLOY FIBRE**

ALUMINIUM, Alloys, Forming, Explosives

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Magnets take on bigger metal forming jobs [Boeing Co. of America] W. H. Larrimer & K. G. Hinks. *Metalworking Production*, 109 (24 Mar 65) p.63-6. il.

ALUMINIUM, Alloys, Ingots. See **INGOTS, Aluminium alloys**

ALUMINIUM, Alloys, Joints, Tubes, Frames, Bicycles. See **BICYCLES, Frames, Tubes, Joints, Aluminium alloys**

ALUMINIUM, Alloys, Melting, Furnaces, Oil-fired

Automatic bale-out furnace: a new oil-fired unit from Morganite Thermal Designs Ltd. *Fuel Efficiency*, 13 (Mar 65) p.28-9. il.

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ALUMINIUM, Alloys, Powder metallurgy, Sintered

Market breakthrough for aluminium sinters. *Light Metals & Metal Industry*, 28 (Sep 65) p.34-8. il.

- ALUMINIUM, Alloys, Roofs, Reservoirs.** See **RESERVOIRS**, Roofs, Aluminium, Alloys
- ALUMINIUM, Alloys, Sheets.** See **SHEETS**, Aluminium alloy
- ALUMINIUM, Alloys, Sheets, Cladding, Aircraft.** See **AIRCRAFT**, Cladding, Sheets, Aluminium, Alloys
- ALUMINIUM, Alloys, Stress corrosion, Effect of residual stresses**
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- ALUMINIUM, Alloys, Welded, Armoured military vehicles.** See **MOTOR VEHICLES**, Military, Armoured, Aluminium alloys, Welded
- ALUMINIUM, Annealed, Friction, Internal, Measurement, Pendulums, Torsion, Effect of stress amplitude**
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- ALUMINIUM, Anodised, Frames, Double glazed windows.** See **WINDOWS**, Double glazed, Frames, Aluminium, Anodised
- ALUMINIUM, Anodising**
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- ALUMINIUM, Anodising, Sealing, Corrosion**
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- ALUMINIUM, Blades, Rotors, Helicopters.** See **HELICOPTERS**, Rotors, Blades, Aluminium
- ALUMINIUM, Boats.** See **BOATS**, Aluminium
- ALUMINIUM, Bodies, Motor vehicles.** See **MOTOR VEHICLES**, Bodies, Aluminium
- ALUMINIUM, Building materials, Anodising**
Anodising plant for architectural sections [Reliable Anodising Ltd.] *Metallurgia*, 72 (Dec 65) p.265-8. il.
Breakaway two-man team, show the way to plan and commission—an advanced anodizing facility [Reliable Anodising Ltd., Birmingham] *Light Metals & Metal Industry*, 28 (Nov 65) p.62-6. il.
New plant for architectural anodising [Reliable Anodising Ltd.] *Electroplating & Metal Finishing*, 18 (Nov 65) p.389-93. il.
- ALUMINIUM, Building materials, Maintenance**
Maintenance of architectural aluminium. *Aluminium Courier* (Sep 65) p.20-1. il.
- ALUMINIUM, Cables.** See **CABLES**, Electric, Aluminium
- ALUMINIUM, Cables, Electrical installations.** See **ELECTRICAL INSTALLATIONS**, Cables, Aluminium
- ALUMINIUM, Cans.** See **CANS**, Aluminium
- ALUMINIUM, Cans, Fish.** See **FISH**, Cans, Aluminium
- ALUMINIUM, Cans, Fuel elements, Nuclear reactors.** See **NUCLEAR REACTORS**, Fuel elements, Cans, Aluminium
- ALUMINIUM, Cans, Fuel elements, Water cooled nuclear reactors.** See **NUCLEAR REACTORS**, Water cooled, Fuel elements, Cans, Aluminium
- ALUMINIUM, Casting**
Melting and casting [Kaiser Aluminium-Werke GmbH, Koblenz] *Light Metals & Metal Industry*, 28 (Jul 65) suppl. p.2-5. il.
- ALUMINIUM, Cathodes.** See **CATHODES**, Aluminium
- ALUMINIUM, Coated, Prefabricated building materials**
Strip-coated metals: prefinishing of aluminium and steel. *Industrialised Building*, 1 (Dec 64) p.28-30. il.
- ALUMINIUM, Coatings, Plastics.** See **PLASTICS**, Coating, Aluminium
- ALUMINIUM, Coatings, Steel.** See **STEEL**, Coatings, Aluminium
- ALUMINIUM, Coatings, Steel, Wires.** See **WIRES**, Steel, Coating, Aluminium
- ALUMINIUM, Cold worked, Tensile strength, Effect of creep**
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- ALUMINIUM, Containers.** See **CONTAINERS**, Aluminium
- ALUMINIUM, Containers, Drugs.** See **DRUGS**, Containers, Aluminium
- ALUMINIUM, Containers, Packaging, Drugs.** See **DRUGS**, Packaging, Containers, Aluminium
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- ALUMINIUM, Corrosion, Testing**
Artificial aluminium corrosion pits as research tools. *Corrosion Technology*, 12 (Feb 65) p.36+. il.
- ALUMINIUM, Corrosion, Water**
Aluminium in fresh waters. W. A. Bell & H. S. Campbell. *Brit. Corrosion J.*, 1 (Sep 65) p.72-9. il. refs.
- ALUMINIUM, Creep, Fatigue**
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- ALUMINIUM, Crystals, Single, Hardening, Ultrasonics**
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- ALUMINIUM, Cylinders.** See **CYLINDERS**, Aluminium
- ALUMINIUM, Determination, Spectrofluorimetry, Reagents, Salicylidene- α -Aminophenol**
Spectrofluorescence of aluminium and gallium with salicylidene- α -aminophenol. R. M. Dagnall, R. Smith & T. S. West. *Chemistry & Industry* (21 Aug 65) p.1499-500. il. refs.
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Thermal behaviour of metallic moulds during repetitive processes of casting. V. Panchanathan, M. R. Seshadri & A. Ramachandran. Brit. Foundryman, 58 (Oct 65) p.380-4. il. refs.

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ALUMINIUM, Dies, Extrusion. See EXTRUSION, Dies, Aluminium**ALUMINIUM, Dissolution, Aluminium—Bronze. See ALUMINIUM—BRONZE, De-aluminification****ALUMINIUM, Drums, Xerography machines. See XEROGRAPHY, Machines, Drums, Aluminium****ALUMINIUM, Effect on polymorphism, Tricalcium silicate. See TRICALCIUM SILICATE, Polymorphism, Effect of aluminium****ALUMINIUM, Effect on steel. See STEEL, Effect of aluminium****ALUMINIUM, Electrical conductors, Aluminium production. See ALUMINIUM, Production, Conductors, Electrical, Aluminium****ALUMINIUM, Electrical conduits. See CONDUITS, Electrical, Aluminium****ALUMINIUM, Electronic engineering**

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ALUMINIUM, Engine components, Motor cars. See MOTOR CARS, Engines, Components, Aluminium**ALUMINIUM, Exothermic padding. Casting, Steel. See STEEL, Casting, Padding, Exothermic, Aluminium****ALUMINIUM, Extrusion, Buildings**

Aluminium extrusion plant [RTZ Metals] Industrial Architecture, 8 (May 65) p.289-91. il.

ALUMINIUM, Extrusion, Cold, Machines

Forward extrusion of aluminium using high strain rates [Model 1200 Dynapak high-strain-rate machine] A. I. Kempinen. Metal Treatment, 32 (Jul 65) p.245-9. il.

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Development programme completed at aluminium tube and extrusion factory [British Aluminium. Redditch] Pipe & Pipelines, 10 (Apr 65) p.46-8. il.

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Factory for aluminium extrusions [RTZ Metals Ltd., Widnes] Engineer, 219 (22 Jan 65) p.175-6. il.

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Improved production facilities for British Aluminium Company. Machinery, 106 (3 Feb 65) p.260-3. il.

Large, fully automatic extrusion press operating [R.T.Z. Metals Ltd.] Light Metals & Metal Industry, 28 (Jan 65) p.64-6. il.

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Packed aluminium extrusion plant for Germany [Loewy Engineering Co. Ltd.] Engineer, 220 (26 Nov 65) p.887. il.

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New extrusion press at H.D.A.'s Distington works [Fielding 2,750 ton press] Metallurgia, 72 (Oct 65) p.180-2. il.

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ALUMINIUM, Manufactures, Adhesives

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ALUMINIUM, Melting

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- ASH**, Determination, Animal glues. See GLUES, Animal, Determination of ash content
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ASTRONAUTICS—SUBHEADINGS—Synopsis

*This synopsis shows, in italic, related subheadings which
are separated in the alphabetical sequence following.*

*International law**Education**Research**Museums**Vehicles**Power supplies**Instruments**Cameras**Communications**Transporters**Flights**Rendezvous operations*

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- B VITAMINS, Eggs.** See **EGGS, Vitamins, B**
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- BACTERIOCIDAL DETERGENTS, Catering equipment.** See **CATERING, Equipment, Detergents, Bacteriocidal**
- BACTERIOLOGY**
 Related Headings:
 COLIFORM ORGANISMS
 FLAVOBACTERIUM PROTEUS
 LACTOBACILLI

BACTERIOLOGY

Related Headings—cont.

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BREAD

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BALL MILLING, Effect on particle size distribution, Powders, Uranium dioxide, Fuels, Nuclear reactors. See NUCLEAR REACTORS, Fuels, Uranium dioxide, Powders, Particle size distribution, Effect of ball milling

BALL MILLS, Dispersion, Pigments, Paint. See PAINT, Pigments, Dispersion, Ball mills

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BAND-PASS FILTERS, Pulses. See PULSES, Filters, Band-pass

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- BENDING, Concrete, Slabs, Floors, Cooling towers. See COOLING TOWERS, Floors, Slabs, Concrete, Bending
- BENDING, Concrete square tanks. See TANKS, Square, Concrete, Bending
- BENDING, Double bottoms, Hulls. See HULLS, Bottoms, Double, Bending
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- BENDING, Elastic foundations, Elastically coupled circular plates. See PLATES, Circular, Coupled, Elastically (Foundations, Elastic) Bending
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- BENDING, Fatigue, Metal, Bellows, Joints, Pipes. See PIPES, Joints, Bellows, Metal, Fatigue, Bending
- BENDING, Fatigue, Steel. See STEEL, Fatigue, Bending
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- BENDING, Low cycle fatigue, Copper. See COPPER, Fatigue tests, Low cycle, Bending
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- BENDING, Metals, Sheets. See SHEETS, Metals, Bending
- BENDING, Mitred bends, Pipes. See PIPES, Bends, Mitred, Bending
- BENDING, Non-prismatic beams. See BEAMS, Non-prismatic, Bending
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- BENDING, Nylon yarns. See YARNS, Nylon, Bending
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- BENDING, Pipes. See PIPES, Bending
- BENDING, Plastic, Composite beams. See BEAMS, Composite, Bending, Plastic
- BENDING, Plastic, Composite continuous beams. See BEAMS, Continuous, Composite, Bending, Plastic
- BENDING, Plastic, Diamond, Plates. See PLATES, Diamond, Bending, Plastic
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- BENDING, Rhombic plates. See PLATES, Rhombic, Bending
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- BENDING, Stresses, Rectangular plates. See PLATES, Rectangular, Stresses, Bending
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THEATRES, Billingham

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Magnetostrictive bimetal. P. Pentcheff & D. Christemoff. *International J. of Control*, 2 (Jul 65) p.75-83. il. refs.

BINARY ALLOYS, Aluminium. See ALUMINIUM, Alloys, Binary**BINARY ALLOYS, Molten. See ALLOYS, Binary, Molten****BINARY CODES. See CODES, Binary****BINARY DECADE COUNTERS. See COUNTERS, Circuits, Decade, Binary****BINARY-DECIMAL CODES, Conversion to binary codes. See CODES, Binary, Conversion from binary-decimal codes****BINARY LIQUID MIXTURES. See LIQUIDS, Mixtures, Binary****BINARY POWDERS. See POWDERS, Binary****BINARY SOLUTIONS, Liquids. See LIQUIDS, Binary solutions****BINDERS, Cores, Moulds. See MOULDS, Cores, Binders**
BINDERS, Drums, Tumbling, Granulation, Sand. See SAND, Granulation (Tumbling, Drums) Binders**BINDERS, Furane, Resins, Cores, Moulds, Casting, Steel. See STEEL, Casting, Moulds, Cores, Binders, Furane resins****BINDERS, Moulds. See MOULDS, Binders****BINDERS, Moulds, Casting, Steel. See STEEL, Casting, Moulds, Binders****BINDERS, Organic, Moulds, Casting, Steel. See STEEL, Casting, Moulds, Binders, Organic****BINDERS, Resin, Cores, Moulds. See MOULDS, Cores, Binders, Resin****BINDERS, Sand, Moulds. See MOULDS, Sand, Binders**
BINDERS, Water, Drums, Tumbling, Granulation, Sand. See SAND, Granulation, Tumbling, Drums, Binders, Water**BINDING, Books. See BOOKS, Covers****BINOCULARS, Vibrations, Damping**
Binoculars for unsteady hands. P. Stubbs. *New Scientist*, 28 (25 Nov 65) p.580. il.**BINS, Cleansing, Roads. See ROADS, Cleansing, Bins****BINS, Storage. See STORAGE, Bins****BIOELECTRIC POTENTIALS, Measurement, Microelectrodes, Preamplifiers, Transistor, Field effect**

Field effect transistors for biological amplifiers. R. E. Webb. *Electronic Engng.*, 37 (Dec 65) p.803-5. il. refs.

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Preservation of biological products by cold. L. Rey. *World Refrigeration & Air Conditioning*, 15 (Dec 64) p.21-7. refs.

BIOLOGICAL OXIDATION, Aqueous effluents, Refining, Petroleum. See PETROLEUM, Refining, Effluents, Aqueous, Oxidation, Biological**BIOLOGICAL OXIDATION, Effluents, Distillation, Whisky. See WHISKY, Distillation, Effluents, Oxidation, Biological****BIPOLAR ELECTRODES. See ELECTRODES, Bipolar****BIPYRIDYLUM QUARTERNARY SALTS**

Related Headings:

DIQUAT

PARAQUAT

BIRCH, Plywood. See PLYWOOD, Birch**BIRDS**

Related Headings:

SPARROWS

BIRDS, Impact resistance, Windscreens, Aircraft. See AIRCRAFT, Windscreens, Bird impact resistance**BIREFRINGENCE, Plastic deformation, Celluloid. See CELLULOID, Plastic deformation, Birefringence****BIRMINGHAM**

See

BUSES, Transport, Birmingham
CIVIC CENTRES, Birmingham
HOSPITALS, Birmingham

HOUSING, Birmingham

MARKETS, Buildings, Birmingham

ROADS, Birmingham

SHOPPING CENTRES, Birmingham

STREETS, Lighting, Birmingham

WATER, Engineering, Birmingham

BISCUITS, Manufactures

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BISCUITS, Manufactures, Ingredient handling, Control systems

Fully automated biscuit plant for Verkade, Holland. *Food Trade Rev.*, 35 (Jan 65) p.48-9. il.

BISCUITS, Manufactures, Mixing

Investigation of the mixing process for hard sweet biscuit doughs. P. Wade. *Food Trade Rev.*, 35 (Mar 65) p.47-53. il. refs.

BISCUITS, Manufactures, Ovens, Gas-fired

Gas bakes the biscuit (extracts) J. C. Saint. *Gas World*, 161 (17 Apr 65) p.76-8. il.

BISCUITS, Storage, Warehouses

Narrow aisle trucks save £8,000. *Storage Handling Distribution*, 8 (Dec 64) p.44-5. il.

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Reductive acetylation of flavones: isolation of bisflavenylidenes. J. S. Chadha. *Chemistry & Industry* (10 Jul 65) p.1263-4. il. refs.

ISMUTH, Electrodeposition, Borax-Molten chloride salts solutions, Precious metal cathodes. See **CATHODES**, Precious metals, Borax-Molten chloride salts solutions, Bismuth electrodeposition
ISMUTH-ANTIMONY, Cathodes. See **CATHODES**, Antimony-Bismuth
ISMUTH-BARIUM GLASS. See **GLASS**, Barium-Bismuth
ISMUTH-LEAD GLASS. See **GLASS**, Lead-Bismuth
ISMUTH-LEAD-TIN. See **ALLOYS**, Fusible
ISMUTH-TIN, Thermoelectric temperature control, Gas cells, Infra-red spectroscopy, Halogenated nitroso compounds. See **NITROSO COMPOUNDS**, Halogenated, Spectroscopy, Infra-red, Gas cells, Temperature, Control, Thermo-electric, Bismuth-Tin

ISHOP'S STORTFORD

See
 TOWN PLANNING, Bishop's Stortford

ISON WALL FRAME SYSTEM, Prefabricated buildings. See
 BUILDINGS, Prefabricated, Bison wall frame system
ISON WALL FRAME SYSTEM, Prefabrication, Flats. See
 FLATS, Prefabrication, Bison wall frame system

ITS, Percussive drills, Rock. See **ROCK**, Drills, Percussive, Bits

ITTER SUBSTANCES, Determination, Beer. See **BEER**, Determination of bitter substances

ITTER SUBSTANCES, Determination, Worts, Brewing. See
 BREWING, Worts, Analysis, Determination of bitter substances

ITTY CREAM, Milk. See **MILK**, Bitty cream

ITUMEN

Related Headings:

ASPHALT
 TAR

ITUMEN, Dressing, Roadways, Bridges. See **BRIDGES**, Roadways, Dressing, Bitumen

ITUMEN, Liquid, Tankers, Ships. See **TANKERS**, Ships, Liquid bitumen-carrying

ITUMEN, Roofing. See **ROOFING**, Bitumen

ITUMEN, Surface dressing, Roads. See **ROADS**, Surfaces, Dressing, Bitumen

ITUMEN-ASBESTOS, Roofing. See **ROOFING**, Asbestos-Bitumen

ITUMEN-PITCH, Dressing, Surfaces, Roads. See **ROADS**, Surfaces, Dressing, Pitch-Bitumen

ITUMINOUS COAL. See **COAL**, Bituminous

LACK GOLD, Anodes. See **ANODES**, Gold, Black

LACK PLATINUM, Cathodes. See **CATHODES**, Platinum, Black

LACKBIRD LEYS

See
 CHURCHES, Oxford, Blackbird Leys

LACKBOARDS

Teaching aids, pt.1: chalkboards and display equipment. Architects' J., 140 (23 Dec 64) information sheet 1309. il.

LACKBURN

See
 MARKETS, Buildings, Blackburn

LACKHEART MALLEABLE IRON. See **IRON**, Malleable, Blackheart

LACKHEATH

See
 HOUSING, Greenwich, Blackheath
 HOUSING, Old people, Blackheath

LACKNELL SYSTEM, Prefabricated buildings. See
 BUILDINGS, Prefabricated, Blacknell system

LACKPOOL

See
 TOWN PLANNING, Blackpool
 TRAMWAYS, Blackpool

BLACKWALL TUNNEL

Ground treatment methods. R. Hammond. Muck Shifter, 23 (Jan 65) p.33-6. il.

Visit to Blackwall Tunnel. J. G. Wardley. Instn. of Civil Engrs. Proc., 30 (Jan 65) p.N28-9. il.

BLADES, Aluminium, Rotors, Helicopters. See **HELICOPTERS**, Rotors, Blades, Aluminium

BLADES, Axial flow compressors. See **COMPRESSORS**, Axial flow, Blades

BLADES, Cantilever, Vibrations

Vibrations of non-uniform cantilever beams. R. F. Rissone & J. J. Williams. Engineer, 220 (24 Sep 65) p.497-506. il. refs.

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BLADES, Gas turbines, Alternators. See **ALTERNATORS**, Gas turbines, Blades

BLADES (Gas turbines) Nimonic alloys, Creep

Nickel-chromium-base creep-resistant alloys for long-life service in industrial equipment. A. W. Franklin, J. Thexton & D. R. Wood. Instn. of Mechanical Engrs. Proc., 178 pt. 3A (1963-64) p.7-21-32. il. refs.

BLADES, Hollow, Draining, Condensing, Steam turbines. See **STEAM**, Turbines, Condensing, Draining, Blades, Hollow

BLADES, Liquid cooled gas turbines, Ships. See **SHIPS**, Gas turbines, Liquid cooled, Blades

BLADES, Propellers, Ships. See **SHIPS**, Propellers, Blades

BLADES, Rotors, Helicopters. See **HELICOPTERS**, Rotors, Blades

BLADES, Saws, Wood. See **WOOD**, Saws, Blades

BLADES, Steam turbines. See **STEAM**, Turbines, Blades

BLADES (Turbines) Cascade, Boundary layer

Influence of attached boundary layers in determining the optimum loading for blades in cascade. B. S. Stratford. J. of R. Aeronautical Soc., 69 (Feb 65) p.133-5. il. refs.

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Accurate quantity checking of turbine blade profiles. Tooling, 19 (Mar 65) p.56-8. il.

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NC straightener and eight-station miller speed production. R. L. Hatschek. Metalworking Production, 108 (30 Dec 64) p.43-5. il.

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Electrochemical machining of a turbine blade. J. Molloy. Machinery, 107 (1 Dec 65) p.1198-203. il.

BLADES (Turbines) Straightening, Machines

NC straightener and eight-station miller speed production. R. L. Hatschek. Metalworking Production, 108 (30 Dec 64) p.43-5. il.

BLADES, Turbines, Water. See **WATER**, Turbines, Blades
BLANKETS, Fast nuclear reactors. See **NUCLEAR REACTORS**, Fast, Blankets

BLANKETS, Offset lithography presses. See **LITHOGRAPHY**, Offset, Presses, Blankets

BLANKETS, Wool, Design

'University' blanket and bedspread. Design (Jun 65) p.47. il.

BLANKING

Scrap-free blanking. W. Kienzle. Sheet Metal Industries, 42 (Nov 65) p.839-45. il.

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BLANKING, Fines, Mild steel. See **STEEL**, Mild, Blanking, Fine

BLANKING, Metals, Strips. See **STRIPS**, Metal, Blanking

BLAST, Moisture, Cupolas, Casting defects, Iron. See
 IRON, Casting, Defects, Cupola blast moisture

BLAST FURNACE SLAG, Cement. See **CEMENT**, Blast furnace slag

BLAST FURNACES. See **FURNACES**, Blast

- BLAST FURNACES, Lead production.** See **LEAD, Production, Blast furnaces**
- BLAST FURNACES, Manganese-Iron production.** See **IRON-MANGANESE, Production, Furnaces, Blast**
- BLAST FURNACES, Manganese-Silicon production.** See **MANGANESE-SILICON, Production, Furnaces, Blast**
- BLAST FURNACES, Zinc production.** See **ZINC, Production, Blast furnaces**
- BLAST ROOMS, Shot-blasting.** See **SHOT-BLASTING, Blast rooms**
- BLASTING, Coal mining.** See **COAL, Mining, Blasting**
- BLASTING, Coal mining.** See **COAL, Mining, Explosives**
- BLASTING, Nickel mining.** See **NICKEL, Mining, Blasting**
- BLASTING, Mining.** See **MINING, Blasting**
- BLASTING, Quarrying.** See **QUARRYING, Blasting**
- BLASTING, Tunnels, Hydroelectric power stations.** See **HYDROELECTRIC POWER STATIONS, Tunnels, Blasting**
- BLASTING, Vanadium mining.** See **VANADIUM, Mining, Blasting**
- BLEACHES, Hair.** See **HAIR, Bleaches**
- BLEACHING, Cotton.** See **COTTON, Bleaching**
- BLEACHING, Cotton, Fabrics.** See **FABRICS, Cotton, Bleaching**
- BLEACHING, Fabrics.** See **FABRICS, Bleaching**
- BLEACHING, Linen, Fabrics.** See **FABRICS, Linen, Bleaching**
- BLEACHING, P.V.C., Yarns.** See **YARNS, P.V.C., Bleaching**
- BLEACHING, Polynosics, Fabrics.** See **FABRICS, Polynosics, Bleaching**
- BLEACHING, Textiles.** See **TEXTILES, Bleaching**
- BLEACHING, Woollen fabrics.** See **FABRICS, Woollen, Bleaching**
- BLEACHING, Yarns.** See **YARNS, Bleaching**
- BLEED FLOW, Effect on base drag, Aerofoils.** See **AERO-FOILS, Base drag, Effect of bleed flow**
- BLENDED POLYESTER FABRICS.** See **FABRICS, Polyester fibres, Blended**
- BLENDING.** See **MIXING**
- BLENDING, Coal.** See **COAL, Blending**
- BLENDING, Cotton fibres.** See **COTTON, Fibres, Blending**
- BLENDING, Lubricants.** See **LUBRICANTS, Blending**
- BLENDING, Man-made fibres.** See **MAN-MADE FIBRES, Blending**
- BLENDING, Waste wool manufactures.** See **WOOL, Manufactures, Waste, Blending**
- BLIND PEOPLE, Ultrasonic guidance aids**
Sonic aid for blind people [Ultra Electronics Ltd.] J. Lewis. *Industrial Electronics*, 3 (May 65) p.232-4. il.
- BLISTER PACKAGING.** See **PACKAGING, Blister**
- BLISTER PACKAGING, Drugs.** See **DRUGS, Packaging, Blister**
- BLISTERING, Brazed silicon controlled rectifiers.** See **RECTIFIERS, Silicon controlled, Brazed, Blistering**
- BLISTERING, Zinc, Priming, Paint, Hulls.** See **HULLS, Paint, Priming, Zinc, Blistering**
- BLOCK DIAGRAMS, Electronic circuits.** See **CIRCUITS, Electronics, Block diagrams**
- BLOCK INTEGRATION, Separation, Stresses, Three dimensional photoelasticity.** See **PHOTOELASTICITY, Three dimensional, Stresses, Separation, Block integration**
- BLOCK POLYMERS.** See **POLYMERS, Block**
- BLOCKBOARD, Housing components.** See **HOUSING, Components, Blockboard**
- BLOCKING, P.V.C. film, Covers, Books.** See **BOOKS, Covers, Film, P.V.C., Blocking**
- BLOCKING OSCILLATORS.** See **OSCILLATORS, Blocking**
- BLOCKS, Concrete**
Building in blocks, pt.4: flexibility the key: building design construction procedure block manufacture. *Building Engr.*, 83 (Feb 65) p.30+. il.
Building in blocks, pt.6: anywhere at anytime. *Building Engr.*, 83 (Apr 65) p.83+. il.
- BLOCKS, Concrete, Aggregates**
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- BLOCKS, Concrete, Insulating materials**
Insulating value of concrete blocks. J. D. McIntosh. *Insulation J.*, 9 (Mar/Apr 65) p.65+
- BLOCKS, Concrete, Lightweight**
Lightweight building blocks. R. R. K. Wilkinson & C. F. Walton. *Insulation J.*, 9 (Mar/Apr 65) p.71-4
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Brick and block manufacture up to date [London Brick Co. Ltd., Stewarby] *Mechanical Handling*, 52 (Sep 65) p.409-11. il.
- BLOCKS, Concrete, Pulverised fuel ash**
Insulating properties of lightweight concrete. [Ly tag] B. R. Cowley. *Insulation J.*, 9 (Mar/Apr 65) p.61+. il.
- BLOCKS, Concrete, Walls, Buildings.** See **BUILDINGS, Walls, Blocks, Concrete**
- BLOCKS, Engines, Motor cars.** See **MOTOR CARS, Engines, Blocks**
- BLOCKS, Hollow, Ceramics, Manufactures**
50 minutes to dry hollow blocks: survey of continental brickmaking practice. W. G. Whitehouse. *Brit. Clayworker*, 74 (Aug 65) p.259-63. il.
- BLOCKS, Languages, Programs, Computers.** See **COMPUTERS, Programs, Languages, Blocks**
- BLOCKS, Thermal insulation, Insets, Windows, Housing.** See **HOUSING, Windows, Insets, Insulation, Thermal, Blocks**
- BLOOMS, Steel, Reheating, Furnaces, Gas-fired**
Pit furnace for rapid scale-free reheating of steel. I. Štelovský. *Metal Treatment*, 32 (Oct 65) p.381-3. il.
- BLOOMS, Steel, Weighing, Machines**
Accurate cutting of slabs and blooms using a machine for determining weight per unit length. J. Dowsing, T. M. McKeon & P. J. Shipp. *Steel Times*, 190 (19 Feb 65) p.268-73. il.
- BLOW EXTRUDERS, Thermoplastics, Film, Corrugated tubes.** See **TUBES, Corrugated, Film, Thermoplastics, Extruders, Blow**
- BLOW FORMING, Aluminium containers.** See **CONTAINERS, Aluminium, Forming, Blow**
- BLOW MOULDED P.V.C. BOTTLES.** See **BOTTLES, P.V.C., Blow moulded**
- BLOW MOULDED P.V.C. BOTTLES, Malt vinegar.** See **VINEGAR, Malt, Bottles, P.V.C., Blow moulded**
- BLOW MOULDED THERMOPLASTICS, Bottles.** See **BOTTLES, Thermoplastics, Blow moulded**
- BLOW MOULDING, High density polythene.** See **POLYTHENE, High density, Moulding, Blow**
- BLOW MOULDING, Plastics.** See **PLASTICS, Moulding, Blow**
- BLOW MOULDING, Polypropylene bottles.** See **BOTTLES, Polypropylene, Moulding, Blow**
- BLOW MOULDING, Thermoplastics.** See **THERMOPLASTICS, Moulding, Blow**
- BLOW MOULDING, Thermoplastics, Containers.** See **CONTAINERS, Thermoplastics, Moulding, Blow**
- BLOW MOULDING, Thermoplastics, Linings, Containers.** See **CONTAINERS, Linings, Thermoplastics, Moulding, Blow**
- BLOWDOWN, Boilers.** See **BOILERS, Blowdown**

LOWERS

Related Headings:

BELLOWS

ROOTS BLOWERS

LOWERS, Gas cooled nuclear reactors. See NUCLEAR

REACTORS, Gas cooled, Circulators

LOWERS, Snow clearance, Road. See ROADS, Snow

clearance, Blowers

LOWERS, Steel, Gas cooled nuclear reactors. See NUCLEAR

REACTORS, Gas cooled, Circulators, Steel

LOWERS, Venturi, Ventilation, Coal mining. See COAL,

Mining, Ventilation, Blowers, Venturi

LOWFLIES, Sheep. See SHEEP, Blowflies

LUE COPPER. See COVELLITE

LUE GAS. See WATER GAS

LUE WATER GAS. See WATER GAS

LUMENAU

See

CHURCHES, Blumenau

LUNT BODIES, Drag, Effect of rear discs

Effect of a rear-mounted disc on the drag of a blunt-based

body of revolution. W. A. Mair. *Aeronautical Q.*, 16 (Nov 65) p.350-60. il. refs.

LUNT BODIES, Drag, Measurement, Pitot-static tubes

Measurement of the drag of bluff bodies by the wake traverse

method. D. J. Maull & P. W. Bearman. *J. of R. Aeronautical Soc.*, 68 (Dec 64) p.843. il. refs.

LUNT BODIES, Flow, Supersonic, Axisymmetric, Base

pressure, Turbulent, Analysis

Analysis of the turbulent base pressure problem in supersonic axisymmetric flow. H. McDonald. *Aeronautical Q.*, 16 (May 65) p.97-121. il. refs.

LYTH

See

TOWN PLANNING, Blyth

BOARD, Paper

Properties of paper and board for subsequent converting and use. *Paper Technology*, 6 (Oct 65) p.421+. il.

BOARD, Paper, Boxes. See BOXES, Paper, Board

BOARD, Paper, Cartons. See CARTONS, Paper board

BOARD, Paper, Coated

'Clatex' machine-coated carton board. *Packaging*, 36 (May 65) p.68+. il. refs.

BOARD, Paper, Containers. See CONTAINERS, Board

BOARD, Paper, Containers, Cosmetics. See COSMETICS,

Containers, Board, Paper

BOARD, Paper, Containers, Drugs. See DRUGS, Containers, Board, Paper

BOARD, Paper, Corrugated, Containers. See CONTAINERS, Board, Corrugated

BOARD, Paper, Corrugated, Lining, Kraft paper, Manufactures

Record production at Swedish Kraft liner mill. *Paper*

Maker, 149 (May 65) p.63+. il.

BOARD, Paper, Manufactures

B. S. & W. Whiteley's new highly automated board mill.

World's Paper Trade Rev., 164 (30 Sep 65) p.986+. il.

New board mill now in production in the Netherlands

[Appingadam] *World's Paper Trade Rev.*, 163 (18 Feb 65) p.478+. il.Thames Board Mills—largest producers of packaging board in UK. E. Williams. *Packaging*, 36 (Apr 65) p.70-3. il.

BOARD, Paper, Manufactures, Control systems

Paper Board Manufacture—electronic control applied to

largest machine in this [Papyrus mill at Newton Kyme, Tedcaster] *Electrical Times*, 146 (31 Dec 64) p.991-3. il.

BOARD, Paper, Manufactures, Machines

Scotland's first Inverform [C. Davidson & Sons Ltd.]

Paper & Print, 38 (Autumn 65) p.182+. il.

BOARD, Paper, Manufactures, Waste paper

Flote purge installation at Scottish mill [C. Davidson & Sons Ltd., Mugiemoss, Scotland] *World's Paper Trade Rev.*, 164 (7 Oct 65) p.1122-3

BOARD, Paper, Packaging materials

Pacit board: universal packaging medium. *Packaging*, 36 (Feb 65) p.37-9. il.

BOARD, Paper, pH., Determination

Migration of ions through board. F. D. Munday. *What We Are Doing* (Oct 65) p.16-19. il.

BOARD, Paper, Printing. See PRINTING, Board, Paper

BOARD, Paper, Thermoplastic film, Packaging, Food. See Food, Packaging, Film, Thermoplastics, Paper board backed

BOARDING, Nylon stockings. See STOCKINGS, Nylon, Boarding

BOARDING SCHOOLS. See SCHOOLS, Boarding

BOATS

Related Headings:

CUTTERS, Boats

DINGHIES

SLEDS, Sea

BOATS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Hydrodynamics

*Waves**Effluents*

Equipment

Hand tools

Technical operations

*Building**Painting*

Materials

*Aluminium**Plastics**Polyester-Glass fibre*

Components

Hulls

Kinds of boats

*Motor**Steam**Catamaran*

BOATS, Aluminium

Aluminium in small craft. *Aluminium Courier* (Dec 64) p.4-15. il.

BOATS, Building

From dugouts to launches. *Ship & Boat Builder*, 18 (Feb 65) p.44-5. il.

BOATS, Building, Drawings, Lofting

Laying-off for the amateur. J. Teale. *Motor Boat*, 102 (12 Feb 65) p.56-7. il.

BOATS, Building, Netherlands

300 yards build 4,500 boats a year. G. A. Bovens. *Ship & Boat Builder*, 17 (Jan 65) p.61-2. il.

BOATS, Catamaran

Practical hydrofoil sailing versus flights of fancy. P. James & P. Butler. *Hovering Craft & Hydrofoil*, 4 (Mar 65) p.8-10. il.

BOATS, Conversion to sheds, Fishing. See FISHING, Sheds, Conversion from boats

BOATS, Effluents, River pollution

Boats are not polluting Norfolk Broads, says independent report. *Municipal Engng.*, 142 (28 May 65) p.1097+. il.

BOATS, Fishing. See FISHING, Vessels**BOATS, Flying. See FLYING BOATS****BOATS, Hand tools**

Toolsmanship. J. Liley. *Motor Boat*, 102 (26 Feb 65) p.18-21. il.

BOATS, Hulls

Building and buying hulls for small boats. *Engineering*, 199 (8 Jan 65) p.40-1. il.

BOATS, Hulls, Plastics, Reinforced, Extendable

"Add-on" reinforced plastic boat hull. *Reinforced Plastics*, 9 (Dec 64) p.100-1. il.

BOATS, Motor

Anglo Dutchman "J.G.M.". F. Snoxell. *Motor Boat*, 103 (16 Jul 65) p.38-9. il.

Cornish Express ["Julia Deux"] *Motor Boat*, 103 (2 Jul 65) p.58-9. il.

Light alloy fast cruiser. *Motor Boat*, 102 (7 May 65) p.81-4. il.

Looking into boats for racing or cruising [Onchi Ponchi 1] *Motor Boat*, 102 (18 Jun 65) p.57-60. il.

"Ocean Pirate"—cruiser. *Ship & Boat Builder*, 18 (May 65) p.35-6. il.

Pleasure craft, 1965. *Ship & Boat Builder*, 18 (Jan 65) p.52-5. il.

Sporty 21-footer from Falmouth [Falcraft Osprey Mark III] *Motor Boat*, 103 (24 Sep 65) p.33-6. il.

BOATS, Motor, Bows, Repair

Awkward bow repair. W. Hall. *Motor Boat*, 102 (26 Feb 65) p.44-5. il.

BOATS, Motor, Couplings, Powder

Dry fluid coupling [Powder Couplings Ltd.] *Ship & Boat Builder*, 18 (Dec 65) p.41-2. il.

BOATS, Motor, Design

Balance of power. G. Hatch. *Motor Boat*, 103 (5 Nov 65) p.34-6. il.

Fast displacement craft and the transition zone. G. N. Hatch. *Ship & Boat Builder*, 18 (Mar 65) p.38-41. il.

Fast displacement craft and the transition zone, pt.3: model testing and form factors. G. N. Hatch. *Ship & Boat Builder*, 18 (May 65) p.31-4. il.

Fast displacement craft and the transition zone. G. N. Hatch. *Ship & Boat Builder*, 18 (Jun 65) p.36-9. il. refs.

Fast displacement craft and the transition zone, pt.6. *Ship & Boat Builder*, 18 (Aug 65) p.45+. il. refs.

Fast displacement craft and the transition zone. G. N. Hatch. *Ship & Boat Builder*, 18 (Sep 65) p.35-7. il.

Fast displacement craft and the transition zone. G. N. Hatch. *Ship & Boat Builder*, 18 (Oct 65) p.53+. il.

Fast displacement craft and the transition zone. G. N. Hatch. *Ship & Boat Builder*, 18 (Nov 65) p.43-6. il.

BOATS, Motor, Diesel engines

Parsons/Cummins diesels. F. Snoxell. *Motor Boat*, 102 (4 Jun 65) p.68-71. il.

Power trends in pleasure craft: recent trends in inboard engines for pleasure craft in the 20-35 ft. range. F. H. Snoxell. *Ship & Boat Builder*, 17 (Jan 65) p.66-9. il.

Ruston WB side-valve diesel engine: robust and low-priced prime mover of 5½ bhp at 3,000 rev/min, for small craft, compressors and pumps. *Marine Engr. & Naval Architect*, 87 (Dec 64) p.576-8. il.

BOATS, Motor, Diesel engines, Maintenance

Maintenance and overhaul of the diesel engine, pt.9. R. E. Reyner. *Ship & Boat Builder*, 18 (Feb 65) p.53+. il.

Maintenance and overhaul of the diesel engine, pt.10. R. E. Reyner. *Ship & Boat Builder*, 18 (Mar 65) p.65+. il.

Maintenance and overhaul of the diesel engine, pt.11. R. E. Reyner. *Ship & Boat Builder*, 18 (May 65) p.54+. il.

BOATS, Motor, Engines

Inboard—outboard for the moderate power range. *Motor Boat*, 102 (26 Mar 65) p.63. il.

Inboard power: Specifications of units. *Motor Boat*, 103 (5 Nov 65) p.64+

Twin 'turbo-chargers': Weslake designed petrol engine with unusual features. C. Bulmer. *Motor* (15 Dec 65) p.41-3. il.

BOATS, Motor, Engines, Maintenance

Engine overhaul. R. Holliday. *Motor Boat*, 102 (12 Mar 65) p.89-92. il.

BOATS, Motor, Engines, Outboard

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See

CHURCHES, Bochum

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BODIES, Commercial vehicles. See **VEHICLES, Commercial, Bodies**

BODIES, Delivery vehicles, Bread. See **BREAD, Vehicles (Delivery) Bodies**

BODIES, Diesel electric locomotives. See **LOCOMOTIVES, Diesel electric, Bodies**

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DUMMIES, Anthropomorphic

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Glass-fibre coaches and caravans at Martin Walter. Automotive Body Engng., 135 (May 65) p.20-3. il.

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Safety glass transparent future. Autocar, 123 (15 Oct 65) p.780-1. il.

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Compatibility of new and old materials. Automotive Body Engng., 134 (Dec 64) p.16.

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- Photogrammetry as an aid to the motor industry. P. Delius. Mass Production, 41 (Nov 65) p.74-82. il.

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- Fabricating the "E" type Jaguar, pt.2. Welding & Metal Fabrication, 33 (May 65) p.209-13. il.

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- Clinching machines: unit construction employed by British Federal Welder and Machine Co. Ltd. Automobile Engr., 55 (Mar 65) p.110-13. il.

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- Welding lines for Japanese car industry [British Federal Welder and Machine Company Ltd.] Welding & Metal Fabrication, 33 (Sep 65) p.371-6. il.

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- Peugeot save space and labour with transfer welders and two-level parts handling. D. Scott. Metalworking Production, 109 (29 Sep 65) p.42-5. il.
 Transfer lines for body welding speed assembly at new Renault plant. D. Scott. Metalworking Production, 109 (11 Aug 65) p.54-7. il.

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 Special bodywork for new Ford chassis. Passenger Transport, 128 (Aug 65) p.340-43. il.
 Varied body styles for the new Ford p.s.v. chassis. Transport J., 24 (13 Aug 65) p.686-8. il.

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- Looking after bodywork in a mixed fleet [W. Alexander and Sons (Midland) Ltd.] A. A. Townsin. Bus & Coach, 37 (17 Nov 65) p.447-50. il.

BODIES (Motor coaches) Painting

- Fifty years of bus and coach painting. J. H. Barbour. Paint Technology, 29 (May 65) p.27-9. il.

BODIES (Motor vehicles) Acrylonitrile-Butadiene-Styrene

- Thermoplastic material for car bodies. [Expanded Royalite] J. A. Edwards. Automotive Body Engrng., 135 (Mar 65) p.14-15

BODIES (Motor vehicles) Aluminium, Extrusion

- Volume-produced extrusions for body engineering [RTZ Metals' new extrusion plant at Widnes in Lancashire] Automotive Body Engrng., 135 (Feb 65) p.10-12. il.

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- Fibreglass in corrosion repair. J. Merchant. Surface Coatings, 1 (Nov 65) p.438-41. il.

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- Apathy towards body competitions. Automotive Body Engrng., 134 (Dec 64) p.31-2

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- Six-hour car refinishing [Docker-Haydon process] Product Finishing, 18 (Nov 65) p.82-4. il.

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- Diversity at Dennis. Motor Body, 135 (Oct 65) p.28-31. il.

BODIES (Motor vehicles) Plastics

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- Equipping a workshop for plastics body repairs. P. Knowles. Commercial Vehicles, 39 (Mar 65) p.68-9. il.

BODIES (Motor vehicles) Specifications

- Preparation of bodywork specifications. F. Jakeman. Automotive Body Engrng., 135 (Mar 65) p.20-6. il.
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BODIES (Motor vehicles) Wood, Joining

- Some useful joints for vehicle body construction. S. F. Page. Woodworking Industry, 22 (Aug 65) p.31-2. il.

BODIES, Plastics, Reinforced, Electric locomotives. See LOCOMOTIVES, Electric, Bodies, Plastics, Reinforced
BODIES, Refrigerated commercial vehicles. See VEHICLES, Commercial, Refrigerated, Bodies

BODIES, Steel, Rolling stock (Passenger, Railways). See ROLLING STOCK (Passenger Railways) Bodies, Steel
BODIES, Trailers, Motor vehicles. See MOTOR VEHICLES, Trailers, Bodies

BODY CENTRED CUBIC COPPER ALLOYS. See COPPER, Alloys, Body centred cubic

BODY CENTRED CUBIC IRON. See IRON, Body centred cubic

BODY CENTRED CUBIC METALS. See METALS, Body centred cubic

BOEING 707-820 AIRCRAFT. See AIRCRAFT, Types, Boeing 707-820

BOEING 727 AIRCRAFT. See AIRCRAFT, Types, Boeing 727

BOEING 737 AIRCRAFT. See AIRCRAFT, Types, Boeing 737

BOGIES (Locomotives) Weight transfer compensation
Weight transfer in a two-bogie locomotive and its compensation. G. Borgeaud. *Instn. of Mechanical Engrs. Proc.*, 178 pt. 3E (1963/64) p.75-125. il.

BOGIES, Electric trains. See TRAINS, Electric, Bogies

BOGIES, Railways, Rolling Stock. See ROLLING STOCK, (Railways) Bogies

BOGIES, Wagons, Railways. See RAILWAYS, Wagons, Bogies

BOGNOR REGIS
See
LIBRARIES, Branch, Bognor Regis

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Plant, fixtures and equipment, general. Architect & Building News, 228 (20 Oct 65) p.737-44. il.

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BOILER HOUSES, Electrical installations

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BOILER HOUSES, Electrical installations, Design

Design of wiring diagrams, pt.9: boilerhouse lighting and control components. J. R. Hickmott. *Heating & Ventilating Engr.*, 39 (Jul 65) p.15-18. il.

BOILER HOUSES, Heating, Hospitals. See HOSPITALS, Heating, Boiler houses

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Modern factory: don't skimp on boiler plant. D. G. Plowright. *Food Manufacture*, 40 (Apr 65) p.48-50. il.

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BOILERS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Problems

Safety
Wear
Corrosion
Scale
Smoke density
Blowdown

Technical operations

Manufactures
Installations
Maintenance
Replacement
Radiography

Operating materials

Fuels
Coal
Feedwater

Constructional materials

Steel

BOILERS—SUBHEADINGS—Synopsis—cont.

Parts & Ancillaries

Casings
Tubes
Chimneys
Control systems
Plant
Air preheaters
Economisers
Instruments
Draught gauges

Kinds by fuel

Solid fuel fired
Coal fired
Coke breeze fired
Oil fired
Gas fired
Electrical
Electrode

Kinds by structure

Packaged
Sectional header
Fire tube
Economic
Water tube

Kinds by mode of working

Once through

Applications

Power stations
Nuclear power stations
Ships
Chemical plant
Dyehouses
Laundries
Hospitals

BOILERS, Air preheaters, Manufactures

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Iron bridge looks the same in steel [Craigellachie] Engineering, 200 (27 Aug 65) p.268. il.

Modern materials provide greater scope for the bridge designer. W. C. Brown. Municipal Engng., 142 (12 Mar 65) p.535+. il.

New Gladesville bridge. Consulting Engr., 26 (Dec 64) p.622-4. il.

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Wye Bridge under construction. Contract J., 206 (5 Aug 65) p.682-3. il.

BRIDGES

Related Headings:

FLYOVERS
ROADS, Elevated
VIADUCTS

BRIDGES—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Technical operations

Maintenance
Floodlighting

Materials

Concrete
Steel
Iron

Components

Beams
Girders
Frames
Decks
Piers
Bearings
Shock absorbers
Roadways
Parapets
Railings

Kinds of bridge by form

Arch
Suspension
Skew
Swing
Bascule
Bailey

Kinds of bridge by function

Motorways
Foot

Ancillaries

Approach roads

Uses

Public transport

BRIDGES, Approach roads, Site investigation

Tay road bridge. D. Shiels. *Muck Shifter*, 23 (Sep 65) p.77+. *il.*

BRIDGES, Arch

Dramatic concrete bridges on the Heads of the Valleys Road, South Wales. *Concrete Q.* (Apr/Jun 65) p.18-21. *il.*

BRIDGES, Bailey, Transoms, Steel, Welded, Fatigue tests

Fatigue tests on Bailey bridge transoms. A. B. M. Braithwaite. *Brit. Welding J.*, 11 (Dec 64) p.641-4. *il.* refs.

BRIDGES, Bascule

Bascule bridge near Lübeck. *Engineer*, 219 (8 Jan 65) p.114-5. *il.*

BRIDGES, Beams, Concrete, Non-uniform, Bending

Deflexion of a non-uniform beam. E. F. Hope-Jones. *Instrn. of Civil Engrs. Proc.*, 31 (Jun 65) p.154-8. *il.*

BRIDGES, Beams, Concrete, Prestressed, Precast, Inspection

Inspection and testing of precast prestressed concrete bridge beams. A. J. Miller. *Quality Engr.*, 29 (May/Jun 65) p.66-74. *il.* refs.

BRIDGES, Bearings, Rubber

Design of frictionally located rubber bearing for bridges. W. A. A. Witham. *Engng. Designer* (Dec 64) p.1-10. *il.* refs.

Rubber in bearings for bridges, pt.1. A. B. Davey & A. R. Payne. *Rubber J.*, 147 (Feb 65) p.24-8. *il.* refs.

Rubber in bearings for bridges, pt.2. A. B. Davey & A. R. Payne. *Rubber J.*, 147 (Mar 65) p.26+. *il.* refs.

BRIDGES, Bearings, Rubber—cont.

Rubber ridge bearings: note on difference between data in two design booklets. P. B. Lindley. *Engng. Designer*. (Nov 65) p.9-11. *il.* refs.

BRIDGES, Communications, Hospitals. See HOSPITALS, Communications, Bridges

BRIDGES, Communications, University buildings. See UNIVERSITY BUILDINGS, Communications, Bridges

BRIDGES, Concrete, Prestressed

Dutch bridge built with precast sections [Oosterschelde bridge] *Contract J.*, 208 (2 Dec 65) p.610-12. *il.*

Modern designs for prestressed concrete bridges. U.

Finsterwalder. *Concrete & Constructional Engrg.*, 60 (Mar 65) p.99-103. *il.*

Notable prestressed concrete bridge in California [Oakland]

T. Y. Lin, F. Kulka & Y. C. Yang. *Civil Engrg. & Public Works Rev.*, 60 (Jun 65) p.817+. *il.*

BRIDGES, Concrete, Prestressed, Decks, Surfaces, Asphalt

Asphalt surfacings on prestressed concrete bridges. A. F. W. Wildeboer. *Roads & Road Construction*, 43 (Oct 65) p.317-21. *il.*

BRIDGES, Decks, Concrete, Prestressed

Concrete to replace masonry [new London Bridge] *Consulting Engr.*, 28 (Oct 65) p.37-8. *il.*

BRIDGES, Decks, Structural analysis, Computers

Bridge deck analysis: electronic computers versus distribution methods. F. Sawko. *Civil Engrg. & Public Works Rev.*, 60 (Apr 65) p.534-8. *il.* refs.

BRIDGES, Ducts, Telephony. See TELEPHONY, Ducts, Bridges

BRIDGES, Electrical. See *after the last subheadings on structural bridges*

BRIDGES, Floodlighting

Floodlighting bridges. P. G. Howard. *Municipal Engrg.*, 142 (12 Mar 65) p.539. *il.*

BRIDGES, Foot

Footbridge with spiral ramps for Atherstone by-pass. A. S. Whitaker. *Roads & Road Construction*, 43 (Jan 65) p.3-10. *il.*

Kingsgate footbridge, Durham. *Architectural Design*, 35 (Mar 65) p.130-2. *il.*

BRIDGES, Foot, Docks. See DOCKS, Bridges, Foot

BRIDGES, Frames, Parallel, Interconnected, Slabs, Concrete, Reinforced, Analysis

Interaction of parallel frames. S. D. Venecanin. *Concrete & Constructional Engrg.*, 60 (Jul 65) p.259-67. *il.*

BRIDGES, Girders, Steel, G plates

"G" plate. G. D. White-Parsons. *Engineer*, 220 (9 Jul 65) p.55-6. *il.*

BRIDGES, Girders, Steel, Manufactures, Mechanical handling

Line production for long girders [Tubwrights Ltd., Kirkby, Liverpool] *Mechanical Handling*, 52 (May 65) p.224-5. *il.*

BRIDGES, Iron, Cast

"Iron Duke" commemorated in cast iron: some bridges built in the year of Waterloo and a commemorative plaque issued on the 50th Anniversary. *Foundry Trade J.*, 199 (16 Sep 65) p.374-5. *il.*

Some early cast iron bridges. J. G. James. *Engineer*, 219 (29 Jan 65) p.202-5. *il.*

BRIDGES, Liquid, Surface active agents effect on flow studies, Wet powders. See POWDERS, Wet, Flow, Effect of surface active agents, Studies, Bridges, Liquid

BRIDGES, Maintenance

County bridges—their maintenance and construction. J. A. Davison. *J. of Instrn. of Highway Engrs.*, 12 (Nov 65) p.31-4. *il.*

BRIDGES, Motorways

Concrete bridges on the new motorways, pt.2: motorway M6. *Concrete & Constructional Engrg.*, 59 (Dec 64) p.437-43. *il.*

BRIDGES, Motorways—cont.

- Italian motorway bridge at Genoa. *Contract J.*, 204 (22 Apr 65) p.1021-2. il.
 Polcevera viaduct. *Engineer*, 219 (18 Jun 65) p.1071-2. il.
 Prestressed concrete viaduct on the Genoa-Savona motorway. *Surveyor*, 125 (24 Apr 65) p.17-19. il.

BRIDGES (Motorways) Composite, Welding, Stud

- Using stud headed headed shear connectors for conversion of troughed deck bridge to composite design. E. R. Acton. *Civil Engng. & Public Works Rev.*, 60 (Apr 65) p.519+. il.

BRIDGES, Parapets

- Bridge parapets & balustrading. *Highways & Bridges & Engng. Works*, 33 (21 Jul 65) p.8+. il.

BRIDGES, Piers, Concrete, Reinforced, Structural analysis, Computers

- Reinforced concrete columns—multidirectional bending and compression or tension. R. J. Bridle & C. H. Potthecary. *Civil Engng. & Public Works Rev.*, 59 (Dec 64) p.1544-5. il.

BRIDGES, Piers, Design, Computers, Programs

- Computer programme for the design of standard bridge piers. K. Sriskandan & C. M. Burt. *Concrete & Constructional Engng.*, 60 (Sep 65) p.345-51. il.

BRIDGES, Public transport

- Six months across the bridge [Forth Road Bridge] G. A. Booth. *Passenger Transport*, 128 (Apr 65) p.148-51. il.

BRIDGES, Railings

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BRIDGES, Railways. See RAILWAYS, Bridges**BRIDGES, Roadways, Dressing, Bitumen**

- Customers studied in Sydney Bridge resurfacing. *Highways & Bridges & Engng. Works*, 33 (27 Jan 65) p.8+

BRIDGES, Shock absorbers, Hydraulic, Components, Machining, Diamond

- Importance of high precision finish (extracts) *Design & Components in Engng.* (25 Mar 65) p.30-1. il.

BRIDGES, Skew, Slabs, Analysis, Interferometry

- Analysis of continuous skew bridge slabs by the Moiré method. A. Coull & K. G. Lickiss. *Civil Engng., & Public Works Rev.*, 60 (Feb 65) p.215-17. il. refs.

BRIDGES, Steel

- Prize steel bridges in the U.S.A. *Civil Engng. & Public Works Rev.*, 60 (Jul 65) p.1041. il.

BRIDGES, Steel, Prefabricated

- Prefabricated American prototype bridge. *Industrialised Building*, 2 (Jun 65) p.37-8. il.
 Prefabricated steel bridge in Maryland. *Engineer*, 219 (8 Jan 65) p.118-19. il.

BRIDGES, Steel, Signalboxes, Railways. See RAILWAYS, Signalboxes, Bridges, Steel**BRIDGES, Steel, Welding**

- Welding techniques cut bridge costs [Clinton Clouston Memorial Bridge] *Consulting Engr.*, 28 (Sep 65) p.58-9. il.

BRIDGES, Suspension

- Amman Whitney President lectures on world's longest span bridge [Verrazano-Narrows Bridge] M. Brumer. *Highways & Bridges & Engng. Works*, 33 (2 Jun 65) p.7-8
 Budapest suspension cable bridge. *Contract J.*, 206 (8 Jul 65) p.157-8. il.
 Forth bridge and the bridges on its approach roads. *Concrete Q.* (Oct/Dec 64) p.23-7. il.

- Forth Road Bridge. J. K. Anderson, J. A. K. Hamilton, W. Henderson, J. S. McNeil, Sir Gilbert Roberts & H. Shirley-Smith. Pt.1; history and financial arrangements. Pt.2; design. Pt.3; construction of foundations and approach viaducts. Pt.4; supply and erection of the main superstructure. Pt.5; approach roads and administration buildings. *Instn. of Civil Engrs. Proc.*, 32 (Nov 65) p.321-512. il.

- Tagus Bridge. *Machinery Lloyd (European ed.)* 37 (Sep 65) p.48-9. il.

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- Tagus bridge. *Machinery Lloyd (Overseas ed.)* 37 (28 Aug 65) p.26-7. il.
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BRIDGES, Suspension, Cables, Wires, Manufactures, Rods, Rolling, Mills, Guides

- SKF bearings in roller guides. *Ball Bearing J.* (Feb 65) p.30-1. il.

BRIDGES, Suspension, Lighting

- Forth Road Bridge lighting. F. B. Green. *Public Lighting*, 29 (Dec 64) p.250-2. il.
 Lighting for the Forth Bridge. R. C. Marc. *Light & Lighting*, 57 (Dec 64) p.370-1. il.

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- Paint and the new Forth Bridge. M. Joyce. *Paint J.*, 17 (Dec 64) p.506-8. il.

BRIDGES, Suspension, Welding

- Severn Bridge fabrication. *Welding & Metal Fabrication*, 33 (Apr 65) p.125-30. il.

BRIDGES, Swing

- Cumberland Basin bridges scheme: new swing bridge. R. A. Baldwin. *Civil Engng. & Public Works Rev.*, 60 (Apr 65) p.557-8. il.

BRIDGES, Underground railways. See RAILWAYS, Underground, Bridges**BRIDGES, Electrical, A.C., Magnetic testing. See MAGNETIC TESTING, A.C., Bridges****BRIDGES, Electrical, Calorimeters, Heat measurement, Gas adsorption, Vacuum deposited metal films. See FILMS, Metal, Vacuum deposited, Gas adsorption, Heat, Measurement, Calorimeters, Bridges****BRIDGES, Electrical, Capacitance measurement, Double layer, Potassium chloride solutions, Mercury electrodes. See ELECTRODES, Mercury, Potassium chloride solutions, Double layer, Capacitance, Measurement, Bridges****BRIDGES, Electrical, Capacitance—Conductance, Industrial design**

- Mouldings dominate design [Wayne Kerr Type 201 Capacitance-Conductance Bridge] *Design Electronics*, 3 (Oct 65) p.30-2. il.

BRIDGES, Electrical, Dielectric loss measurement. See DIELECTRIC LOSS, Measurement, Bridges**BRIDGES, Electrical, Inductance, Tracing, Templates, Copying, Machining. See MACHINING, Copying, Templates, Tracing, Bridges, Inductance****BRIDGES, Electrical, Oil impregnated paper insulation measurement, Transformers. See TRANSFORMERS, Insulation, Paper, Oil impregnated, Measurement, Bridges**

BRIDGES, Electrical, Ratio-arm

Spring support is key to probe design [Mercer-Parum Probe, Type CIII] Design Electronics, 3 (Oct 65) p.24-5. il.

BRIDGES, Electrical, Ratio arm, D.C. value determination, Resistors. See **RESISTORS, D.C. value, Determination, Bridges, Ratio arm**

BRIDGES, Electrical, Ratio-arm, Loss measurement, Magnetic cores. See **CORES, Magnetic, Losses, Measurement, Bridges, Electrical, Ratio-arm**

BRIDGES, Electrical, Ratio-arm, Permeability measurement, Magnetic cores. See **CORES, Magnetic, Permeability, Measurement, Bridges, Electrical, Ratio-arm**

BRIDGES, Electrical, Rectifiers, D.C. motors. See **ELECTRIC MOTORS, D.C., Rectifiers, Bridge**

BRIDGES, Electrical, Strain gauges, Fatigue testing. See **FATIGUE TESTING, Strain gauges, Bridges**

BRIDGES, Electrical, T-twin, Nuclear magnetic resonance. See **NUCLEAR MAGNETIC RESONANCE, Bridges, T-twin**

BRIDGES, Electrical, Thermometric titrations. See **THERMOMETRIC TITRATIONS, Bridges**

BRIDGES, Electrical, Wheatstone, Temperature control, Torque magnetometers. See **MAGNETOMETERS, Torque, Temperature, Control, Wheatstone bridges**

BRIDGES, Electrical, Yoke, Loss measurement, Silicon-Iron cores, Electrical machinery. See **ELECTRICAL MACHINERY, Cores, Iron-Silicon, Loss, Measurement, Bridges, Yoke**

BRIDGES, Structural engineering. See *above before* **BRIDGES, Electrical**

BRIGHTENERS, Nickel electroplating. See **ELECTROPLATING, Nickel, Brighteners**

BRIGHTENERS, Silver, Electroplating. See **ELECTROPLATING, Silver, Brighteners**

BRIGHTENERS, Zinc electroplating. See **ELECTROPLATING, Zinc, Brighteners**

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BRIGHTENING AGENTS, Optical. See **DYES, Fluorescent**

BRIGHTON

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BUSES, Transport, Brighton
CHURCHES, Brighton

BRILLIANT GREEN, Reagents, Precipitation, Geochemical prospecting, Gold. See **GOLD, Geochemical prospecting, Precipitation, Reagents, Brilliant green**

BRINELL HARDNESS NUMBER, Steel. See **STEEL, Brinell hardness number**

BRINING, Silverskin onions. See **ONIONS, Silverskin, Brining**

BRIQUETTING, Coal. See **COAL, Briquetting**

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CATHEDRALS, Roman Catholic, Bristol
FLATS, Bristol
POWER DISTRIBUTION, Bristol
ROADS, Town planning, Bristol
WATER, Engineering, Bristol

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COPPER, Mining, British Columbia
HOSPITALS, Berkeley (British Columbia)
HYDROELECTRIC POWER, British Columbia
HYDROELECTRIC POWER, Peace River
MOLYBDENITE, Mining, British Columbia
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TRAMCARS, Budapest

BUENOS AIRES

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POWER STATIONS, Buenos Aires

BUFFALO MILITARY TRANSPORT AIRCRAFT. See AIRCRAFT, Military, Transport, Types, De Havilland Canada DHC-5 Buffalo**BUFFER AMPLIFIERS. See AMPLIFIERS, Buffer****BUFFET CARS, Electric trains. See TRAINS, Electric, Buffet cars****BUICK CARS. See MOTOR CARS, Types, Buick****BUICK RIVIERA CARS. See MOTOR CARS, Types, Buick Riviera****BUILDING**

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BUILDING

Related Headings:

ACRYLIC PLASTICS, Building materials

ADHESIVES, Building materials

AIR CONDITIONING

ALUMINIUM, Building materials

ARCHITECTURE

ASBESTOS, Building materials

BATHROOMS

BEDROOMS

BED-SITTINGROOMS

CEILINGS

CELLARS

COAL, Pulverised, Ash, Building materials

CONCRETE, Aggregates, Building materials

CONCRETE, Building materials

CONCRETE, Lightweight aggregate, Building materials

CONCRETING

DAMP-PROOFING

DINING HALLS

DINING ROOMS

DOORS

EPOXY RESINS, Building materials

FIBRE BOARD, Building materials

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GLASS, Expanded, Building materials

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GLIAN, Building materials

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MASONRY

METALS, Coated, Plastics, Building materials

MODULAR CO-ORDINATION

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P.V.C., Building materials

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BUILDING

Related Headings—cont.

PLASTICS, Reinforced, Building materials
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 PLYWOOD, Building materials
 POLYESTER-GLASS FIBRE, Building materials
 POLYPROPYLENE, Building materials
 POLYTHENE, Building materials
 QUANTITY SURVEYING
 ROOFLIGHTS
 ROOFS
 SEALANTS, Building materials
 SLATE
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 STAIRWELLS
 STEEL, Stainless, Building materials
 STRUCTURES
 STUDY-BEDROOMS
 THERMOPLASTICS, Building materials
 VENTILATION
 WEATHERBOARDING
 WINDOWS
 WOOD, Building materials

BUILDING—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Special localities
Overseas

Regulations

Costs
Bill of quantities

Contracts
Forms of contract
 Contractors

Consortia

Education
Apprenticeship
 Research
 Exhibitions
 Information services
 Classification systems

Problems
Industrial safety
Accidents
Industrial health

Sites

Materials

Equipment
Computers
Power supplies
Cables
Industrial clothing

Technical operations
Critical path analysis
Time study
Progress reporting
Site organisation
Inspection

BUILDING—SUBHEADINGS—Synopsis—cont.

Communications
Mechanical handling
 Building under special conditions
Effect of weather conditions
Winter

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BUILDING, Sites, Soil, Sampling

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BUILDING, Sites, Soil, Tests

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CLERKS OF WORKS

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BUILDING, Winter, Costs, Great Britain

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BUILDING UNITS, Precast concrete, Housing. See HOUSING, Concrete, Precast, Building units**BUILDINGS—SUBHEADINGS—Synopsis**

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following

Testing**Problems**

- Ageing*
- Depreciation*
- Effect of climate*
- Fires*
- Dampness*
- Condensation*
- Town & country planning*
- Town planning*

BUILDINGS—SUBHEADINGS—Synopsis—cont.

Properties

Acoustics

Technical activities

Maintenance
 Preservation
 Underpinning
 Cleaning
 Insulation
 Decoration
 Painting
 Paint
 Photography

Parts

Components
 Frames
 Panels
 Girders
 Sheets
 Laminates
 Slabs
 Foundations
 Walls
 Cladding
 Grilleworks
 Partitions
 Rooms
 Basements
 Storage facilities
 Fittings
 Joints

Services

Engineering services
 Heating
 Lighting
 Floodlighting
 Water
 Drainage

Kinds

Temporary
 Tall
 Articulated

 Wood
 Concrete
 Stone

 Prefabricated

 Overhead
 Riparian

BUILDINGS, Acoustics, Research

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BUILDINGS, Acoustics, Materials, Painting

Acoustic surfaces. G. Old. Painting & Decorating, 85 (Feb 65) p.34+

BUILDINGS, Ageing

Depreciation, obsolescence and aging (summary) P. Cowan. Architects' J., 141 (16 Jun 65) p.1395-401. il. refs.

BUILDINGS, Articulated, Subsidence

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Problems in modern air conditioning, pt.3: air conditioning of basements and underground stores. M. Komadera. Heating & Ventilating Engr., 38 (Jun 65) p.687-9. il.

BUILDINGS, Cladding

Civilisation's veneer and fixings for cladding. J. Jason. Building Engr., 83 (Jul 65) p.128-9. il.

BUILDINGS, Cladding, Concrete, Precast, Prefabricated

Production of precast panels for cladding [Dean Jesmond & Co. Ltd.] Cement, Lime & Gravel, 40. (Sep 65) p.301-8. il.

BUILDINGS, Cladding, Metals, Sheets, Troughed

Design and production of sheet-metal roofing and siding sheets. W. Cookson. Sheet Metal Industries, 42 (May 65) p.355+. il. refs.

BUILDINGS, Cladding, Plastics

Rigid sheet for roofing and cladding. Rubber & Plastics Age, 46 (Jan 65) p.39-40. il. ref.

BUILDINGS, Cladding, Slate

Slate cladding for modern buildings. Industrial Diamond Rev., 25 (May 65) p.207-9. il.

BUILDINGS, Cladding, Steel, Enamelled, Vitreous

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BUILDINGS, Cladding, Stone

Stonefaced precast cladding panels. Builder, 208 (12 Mar 65) p.593-4. il.

BUILDINGS, Cleaning

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BUILDINGS, Components, Coatings, Plastics

Plastics base for architectural finishes [Rhindo Continuous Production Process] Industrialised Building, 2 (Oct 65) p.48+. il.

BUILDINGS, Components, Paint

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Industrial finishes, pt.3: selection and specification. J. Wilson. Architects' J., 142 (28 Jul 65) p.201-4

BUILDINGS, Components, Prefinished

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BUILDINGS, Concrete, Construction, Formwork

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Formwork: further developments. Concrete & Constructional Engrg., 60. (Jun 65) p.233-9. il.

BUILDINGS, Concrete, Construction, Formwork, Sliding

French formwork system: sliding about to commence on City of London building. Contract J., 206 (8 Jul 65) p.171. il.

BUILDINGS, Concrete, Construction, Formwork, Steel-Plywood

Formwork system: standard steel-framed plywood panels [Concrete Formwork Ltd.] Industrialised Building, 2 (Sep 65) p.81-2. il.

BUILDINGS, Concrete, History

Early concrete buildings in Britain. A. J. Francis. Concrete & Constructional Engrg., 60 (Feb 65) p.73-4

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BUILDINGS, Concrete, Lightweight aggregate, Codes of Practice

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BUILDINGS, Concrete, Walls, External, Pierced, Stiffness

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BUILDINGS, Concrete, White cement, Construction, Formwork

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BUILDINGS, Condensation

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BUILDINGS, Dampness

- Towards drier building. E. L. Bird. Building Materials, 25 (Feb 65) p.17-21. il.

BUILDINGS, Decoration, Flame cutting

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BUILDINGS, Decoration, Welding, Arc

- Use of welding and flame cutting in the sphere of art. Sheet Metal Industries, 42 (Oct 65) p.765+. il. refs.

BUILDINGS, Depreciation

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BUILDINGS, Effect of climate

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BUILDINGS, Engineering services, Planning

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BUILDINGS, Farm. See FARM BUILDINGS**BUILDINGS, Fires**

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BUILDINGS, Fires, Exits, Smoke removal, Pressurisation

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BUILDINGS, Fires, Prevention

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BUILDINGS, Fittings

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BUILDINGS, Fittings

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COUNTERS, Fittings

BUILDINGS, Fittings, Metals

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BUILDINGS, Foundations, Instability

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BUILDINGS, Foundations, Pore pressure, Dissipation, Effect of construction time

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BUILDINGS, Foundations, Regulations

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**BULK HANDLING, Road tankers, Transport, Alumina
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BULK HANDLING, Shortenings. See SHORTENINGS, Bulk
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Contour**

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Ultra-violet flame surveillance system. *Power & Works Engng.*, 60 (Nov 65) p.26-7. il.**BURNERS, Furnaces, Melting, Glass. See GLASS, Melting, Furnaces, Burners****BURNERS, Gas-fired boilers. See BOILERS, Gas-fired, Burners****BURNERS, Natural gas. See GAS, Natural, Burners****BURNERS, Oil-fired boilers. See BOILERS, Oil-fired, Burners****BURNERS, Oil-fired boilers, Heating, Houses. See HOUSES, Heating, Boilers, Oil-fired, Burners****BURNERS, Oil fired boilers, Power stations. See POWER STATIONS, Boilers, Oil-fired, Burners****BURNERS, Oil-fired furnaces, Melting, Glass. See GLASS, Melting, Furnaces, Oil-fired, Burners****BURNERS, Pressure jet**

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- Which way is the wind blowing? *Bus & Coach*, 37 (17 Nov 65) p.425-33. il.
- Why Northern General is running Routemasters. W. Lambden. *Bus & Coach*, 37 (May 65) p.156-60. il.

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This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

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- Varied body styles for the new Ford p.s.v. chassis. Transport J., 24 (13 Aug 65) p.686-8. il.

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- Looking after bodywork in a mixed fleet [W. Alexander and Sons (Midland) Ltd] A. A. Townsin. *Bus & Coach*, 37 (17 Nov 65) p.447-50. il.

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- Fifty years of bus and coach painting. J. H. Barbour. *Paint Technology*, 29 (May 65) p.27-9. il.

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- A.E.C. swift, pt.3: rear hub assemblies, rear suspension, front suspension, steering gear and linkage, braking system, chassis frame and electrical system. *Automobile Engrg.*, 55 (Sep 65) p.384-91. il.
- British passenger chassis: buyers' guide. *Commercial Motor*, 122 (1 Oct 65) p.78+. il.
- New Bedford PSV chassis [VAM] Passenger Transport, 128 (Jul 65) p.296-8. il.
- New Ford passenger chassis [R192] R. D. Cater. *Commercial Motor*, 121 (23 Jul 65) p.60-1. il.
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- New passenger chassis for Bedford stable: Vauxhall's VAM Transport World (Jun 65) p.14-15. il.
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LIMESTONE

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See AIR TRANSPORT, Seat reservation, Telephony, Call queueing

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POLYSACCHARIDES

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CARBOXYLIC ACIDS
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ABIETIC ACID
ACETIC ACID

CARBOXYLIC ACID

Related Headings—cont.

AMINO ACIDS
BENZENECARBOXYLIC ACIDS
BICYCLO [2,2,2] OCTENE BORONIC ACIDS
CHRYSANTHEMIC ACID
CITRIC ACID
CYCLOBUTANE-1,2-DICARBOXYLIC ACIDS
CYCLOPROPYL-1-HYDROXY-2-NAPHTHYLACETIC
ACID
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ACID
4,4'-DIAMINOSTILBENE-DISULPHONIC ACIDS
2 α ,3 η -DIHYDROXYURS-12-EN-28-OIC ACID
E.D.T.A.
FATTY ACIDS
FORMIC ACID
HYDROBENZOIC ACIDS
3-HYDROXY-3-PHENYLVALERIC ACID
LACTIC ACID
LINOLEIC ACID
LINOLENIC ACID
M.C.P.
MALEIC ACID
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NICOTINIC ACID
NITRILOTRIACETIC ACID
PEROXYACETIC ACID
PHENYLARSONIC ACID
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PHTHALIC ACID
PYRUVIC ACID
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HYDROELECTRIC POWER STATIONS, Caroni River

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CATTLE

Related Headings:

CALVES

COWS

OXEN

CATTLE, Fattening, Housings

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CERAMICS-PLASTICS, Dies. See DIES, Ceramics-Plastics

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CERMETS, Fuel elements, Nuclear reactors. See NUCLEAR REACTORS, Fuel elements, Cermets

CESIUM. See CAESIUM

CESSNA 337 SUPER SKYMASTER LIGHT AIRCRAFT. See AIRCRAFT, Light, Types, Cessna 337 Super Skymaster

CESSNA LIGHT AIRCRAFT. See AIRCRAFT (Light) Types, Cessna

CESSNA SKYKNIGHT LIGHT AIRCRAFT. See AIRCRAFT (Light) Types, Cessna Skyknight

CHAIN CONVEYORS, Cables, Electrical machinery. See ELECTRICAL MACHINERY, Cables, Conveyors, Chain

CHAIN CONVEYORS, Clothing manufactures. See CLOTHING, Manufactures, Conveyors, Chain

CHAIN CONVEYORS, Hoses, Hydraulic machinery. See HYDRAULIC MACHINERY, Hoses, Conveyors, Chain

CHAIN CONVEYORS, Hoses, Pneumatic machinery. See PNEUMATIC MACHINERY, Hoses, Conveyors, Chain

CHAIN-GRATES, Stoking, Economic boilers. See BOILERS, Economic (Stoking, Chain-grates)

CHAIN SAWS, Wood. See WOOD, Saws, Chain

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CHAINS, Drives, Full fashioned knitwear manufactures. See KNITWEAR, Full fashioned, Manufactures, Drives, Chains

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CHAIRS, Stacking, Polypropylene, Design

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CHAMBISHI

See

COPPER, Mining, Opencast, Chambishi

CHANDIGARH

See

ARCHITECTURE, Chandigarh

CHANGING ROOMS, Secondary schools. See SCHOOLS, Secondary, Changing rooms

CHANNEL DROPPING WAVEGUIDE FREQUENCY FILTERS.

See FILTERS, Frequency, Waveguide, Channel dropping

CHANNEL ISLANDS

See

ELECTRIC POWER SYSTEMS, Guernsey
YACHTS, Navigation, Tidal waters, Channel Islands

CHANNEL-SECTIONS. See SECTIONS, Channel

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Bombardment, Ions, Channelling

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Irradiation, Channelling

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Theological, Chapels

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Cavityless, Moulds, Chaplets

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ALUMINIUM, Temperature, Characteristic

CHARACTERISTIC TEMPERATURE, Lead. See LEAD,

Temperature, Characteristic

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Helium cooled, Fission products, Gases, Inert, Adsorption,
Charcoal

CHARGE INJECTION, Hexane conductivity, Electrical. See
HEXANE, Inducement, Charge injection

CHARGE-STORAGE DIODES, Frequency multipliers. See
FREQUENCY, Multipliers, Diodes, Charge-storage

CHARGERS, Scrap, Open hearth furnaces. See FURNACES,
Open hearth, Scrap chargers

CHARGING, Blast furnaces. See FURNACES, Blast, Charging

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CANALS, Charleroi-Brussels

CHARPY IMPACT TESTS, Chromium-Steel, Tools. See
TOOLS, Steel-Chromium, Charpy impact tests

CHARPY IMPACT TESTS, Lapped joints, Synthetic resins,
Adhesives, Bonding, Steel, Plates. See PLATES, Steel,
Bonding, Adhesives, Synthetic resins, Lapped joints,
Charpy impact tests

CHARPY IMPACT TESTS, Notch ductility, Welded mild steel.
See STEEL, Mild, Welded, Notch ductility, Charpy
impact tests

CHARPY IMPACT TESTS, Welded mild steel, Plates, Pressure vessels, Nuclear reactors. See NUCLEAR REACTORS, Pressure vessels, Plates, Steel, Mild, Welded, Charpy impact tests

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Management, Charts

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CHASSIS, Commercial vehicles. See **VEHICLES, Commercial, Chassis**

CHASSIS (Commercial vehicles) Frames, Vibrations

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CHASSIS, Racing cars. See **MOTOR CARS (Racing) Chassis**
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CHATHAM

See GOVERNMENT BUILDINGS, Chatham

CHEBYSHEV LOW-PASS FILTERS, Impedance matching. See **IMPEDANCE, Matching, Filters, Low-pass, Chebyshev**

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CHECK FABRICS. See **FABRICS, Check**

CHECK VALVES, Fuel injection pumps, Diesel engines. See **DIESEL ENGINES, Fuel injection pumps, Check valves**

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CHEESE

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CHEESE, Leicester, Manufactures

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CHEESE, Manufactures, Curd-making

Continuous curd plant makes its debut: APV Paracurd 600 continuous curd producing plant installed at the factory of Ets. Hutin, Blaise-sous-Arzillieres, France. *Dairy Industries*, 30 (Sep 65) p.709-10. il.

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CHEESE, Storage, Buildings, Air conditioning

Wide temperature & humidity range at new cheese stores. *Modern Refrigeration*, 68 (Apr 65) p.330+. il.

CHELATES, Polymerisation, Polymethyl methacrylate production. See **POLYMETHYL METHACRYLATE, Production, Polymerisation, Chelates**

CHELATING AGENTS

Related Headings:
E.D.T.A.

CHELMSFORD

See

COUNTY OFFICES, Chelmsford
ROADS, Town planning, Chelmsford

CHELSEA & KENSINGTON. See **KENSINGTON & CHELSEA CHELTHENHAM**

See

TOWN PLANNING, Cheltenham

CHEMICAL ANALYSIS. See **ANALYSIS, Chemical**

CHEMICAL BALANCES. See **BALANCES, Chemical**

CHEMICAL CLEANING, Boilers, Power stations. See

POWER STATIONS, Boilers, Cleaning, Chemical

CHEMICAL CLEANING, Cooling systems, Pressurised water nuclear reactors. See **NUCLEAR REACTORS, Pressurised water, Cooling systems, Chemical cleaning**

CHEMICAL CONTROL, Finishing, Metals. See **METALS, Finishing, Chemical control**

CHEMICAL ENGINEERING

Chemical engineering with ICI at Billingham. P. W. Reynolds. *Chemical Engrng.*, 43 (Mar 65) p.CE55-6. il.

CHEMICAL ENGINEERING

Related Headings:

CHEMICAL REACTIONS
UNIT OPERATIONS
UNIT PROCESSES

CHEMICAL ENGINEERING—SUBHEADINGS—Synopsis

This synopsis shows, in *italic*, related subheadings which are separated in the alphabetical sequence following.

Profession
Education
Teaching

CHEMICAL ENGINEERING SUBHEADINGS—Synopsis—cont.

Experiments

Costs

Particular localities

Europe

Venezuela

Industrial health

Plant

Control systems

Electrical installations

Technical activities

Programming

Work study

Processes

Transport processes

Residence times

By products

Effluents

Special fields

High temperature

CHEMICAL ENGINEERING, Control systemsDiscrete maximum principles. E. S. Sellers. *Chemistry & Industry* (28 Aug 65) p.1518-19. refs.

Failure of automatic process control systems. J. R.

Connell. *Petroleum*, 28 (Jun 65) p.226-31. il.Instrumentation—the next ten years. C. W. Smith. *Chemical & Process Engng.*, 46 (Jul 65) p.345-8. il.Joint study of chemical plant control [Elliott Automation—Distillers Co.] *Engineering*, 200 (13 Aug 65) p.212. il.

Low-cost automation in the process industries. C. Teekens.

Chemical & Process Engng., 46 (Jul 65) p.362+. il. refs.

Principles of control for chemical engineers, pt.1. H. W.

Kropholler & D. J. Spikins. *Chemical & Process Engng.*, 46 (Jul 65) p.349-55. il. refs.

Principles of control for chemical engineers, pt.2. H. W.

Kropholler & D. J. Spikins. *Chemical & Process Engng.*, 46 (Aug 65) p.394-8. il. refs.

Principles of control for chemical engineers, pt.3. H. W.

Kropholler & D. J. Spikins. *Chemical & Process Engng.*, 46 (Oct 65) p.558-63. il. ref.**CHEMICAL ENGINEERING, Control systems, Computers**

Application of computers to process control. T. B. M.

Rybak. *Chemical Processing*, 11 (Apr 65) suppl. p.S3-5. il. refs.Computer control in the chemical industries: past, present and future. F. A. Snow. *Chemical Age*, 94 (27 Nov 65) p.809+. il.Computers: U.K. lags behind. *Chemical Age*, 94 (27 Nov 65) p.805+Computers in chemicals: much of management work done better by digital computer. *Chemical Age*, 94 (27 Nov 65) p.807Computers in process control. T. B. M. Rybak. *Chemical & Process Engng.*, 46 (Jul 65) p.357-60. il. refs.

Experience gained from 1962 direct digital control [I.C.I.

Fleetwood Soda Ash Plant] *Instrument & Control Engng.* (Nov 65) p.12-19. il.Ferranti system and experience with direct digital control (abstract) R. A. Morley & C. M. Cundall. *Process Control & Automation*, 12 (Jul 65) p.289-95. il. refs.On-line process computing, pt.1. A. Henney. *Brit. Chemical Engng.*, 10 (Sep 65) p.599-601. il. refs.**CHEMICAL ENGINEERING, Control systems, Computers—cont.**On-line process computing, pt.2. A. Henney. *Brit.**Chemical Engng.*, 10 (Oct 65) p.696-701. il. refs.Process control by computer. *Paint Technology*, 29 (Sep 65) p.52-3

Operating experience with direct digital control. A.

Thompson. *Chemical Engr.*, 43 (May 65) p.CE96-101

User notes and experience in on-line digital computer

process control [I.C.I.] D. H. Whiting. *Paper Tech-**nology*, 6 (Aug 65) p.310-17**CHEMICAL ENGINEERING, Control systems, Computers, Analogue**

On-line optimization with an analogue computer PC-12.

Control, 9 (Feb 65) p.85-6. il.**CHEMICAL ENGINEERING, Costs**Engineering for gain. A. F. Stobart. *Chemical & Process**Engng.*, 46 (Mar 65) p.158-60**CHEMICAL ENGINEERING, Education**

Chemical engineering education for the future. J. T.

Davies. *Chemical Engr.*, 43 (Sep 65) p.CE232-42. refs.

Importance of academic chemical technology for industry.

N. Macleod. *Brit. Chemical Engng.*, 10 (Sep 65) p.628+. ref.Philosophy of chemical engineering and the case for chemical technology. N. Macleod. *Brit. Chemical Engng.*, 10 (Jun 65) p.397-9. refs.

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Kearton. *Chemical Engr.*, 43 (Sep 65) p.CE209-221. ref.

What industry wants in its chemical engineers. T. H. Chilton.

Chemical Engr., 43 (Sep 65) p.CE201+. ref.**CHEMICAL ENGINEERING, Education, U.S.A.**

Chemical engineering education in the United States of

America. O. A. Hougen. *Chemical Engr.*, 43 (Sep 65) p.CE222-31. il. refs.**CHEMICAL ENGINEERING, Effluents, Oil—Water, Emulsions, Treatment**

New method of treating oil emulsions in effluents. E. Baer.

Electroplating & Metal Finishing, 18 (Jun 65) p.201-3. il.**CHEMICAL ENGINEERING, Effluents, Sludge, Dredging**Sludge dredging. *Chemical Processing*, 11 (Jun 65) p.97-8.

il.

CHEMICAL ENGINEERING, Effluents, Treatment

Effluent problems of a large chemical works. I. D. Holland.

Inst. of Sewage Purification J. & Proc. pt.6 (1965) p.507-11. refs.**CHEMICAL ENGINEERING, Electrical installations**

Electrical engineering in process plant. G. W. Spall.

Chemical & Process Engng., 45 (Dec 64) p.657+. il.**CHEMICAL ENGINEERING, Europe**Chemical engineering in Europe. C. Hanson. *Chemical**Engr.*, 43 (Jul/Aug 65) p.CE172-80. refs.**CHEMICAL ENGINEERING, Experiments, Design statistics**

Process development—accident or design? W. T. Cuthbert.

Brit. Chemical Engng., 10 (Oct 65) p.675-9. il. refs.**CHEMICAL ENGINEERING, High temperature, Plant**

Chemical engineering at high temperatures. C. Edeleanu.

Petroleum Times, 69 (16 Apr 65) p.200-1. il.**CHEMICAL ENGINEERING, Industrial health**

Occupational health hazards in the chemical industry. T.

Coates. *Brit. J. of Industrial Safety*, 6 (Winter 64) p.237-40. il. refs.**CHEMICAL ENGINEERING, Iron production.** See IRON, Production, Chemical engineering**CHEMICAL ENGINEERING, Plant**Impossible to meet plan on present trend. *Chemical Age*, 94

(25 Sep 65) p.481+

CHEMICAL ENGINEERING, Plant

Related Headings:

BOILERS, Chemical plant

BOILERS, Water tube, Chemical plant

CHEMICAL REACTORS

CONDENSERS

CHEMICAL ENGINEERING, Plant

Related Headings—cont.

FLUIDISED BEDS
PACKED BEDS
PACKED COLUMNS
PACKED TOWERS
PLATE COLUMNS
PRESSURE VESSELS

CHEMICAL ENGINEERING, Plant, Construction, P.E.R.T.

Programme evaluation and review technique [Laporte Industries Ltd.] P. Farago, R. E. Hall & R. E. Rose. Chemical Processing, 11 (May 65) p.28-31. il.

CHEMICAL ENGINEERING, Plant, Costs

Capital cost estimating in the chemical industry. D. A. F. White. Chemical & Process Engng., 46 (Sep 65) p.508-16. il.

Manufacturing plant and facilities—cost and control. D. M. Ferguson. Chemical & Process Engng., 46 (Jul 65) p.376-80. il.

CHEMICAL ENGINEERING, Plant, Design

State of chemical engineering design thought. S. A. Gregory. Chemistry & Industry (27 Nov 65) p.1962-4

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GATE CIRCUITS
INTEGRATORS, Electronics

CIRCUITS, Electronics

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MODULATORS
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- CIRCULAR HOLES, Cylindrical shells.** See SHELLS, Cylindrical, Holes, Circular
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CLUBHOUSES, Wood, Sites, Caravans. See CARAVANS, Sites, Clubhouses, Wood

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CLUSTERS, Rods, Fuel elements, Gas cooled nuclear reactors. See NUCLEAR REACTORS, Gas cooled, Fuel elements, Rods, Clusters

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HOVERCRAFT, Transport, Clyde River

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See

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COAGULATION, Iron removal, Water purification. See

WATER, Purification, Iron removal, Coagulation

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WATER, Purification, Manganese removal, Coagulation

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COAL

Related Headings:

ANTHRACITE

COKE

FUELS, Solid

COAL, Ash

Related Headings:

CLINKER

COAL—SUBHEADINGS—Synopsis

This synopsis shows, in *italic*, related subheadings which are separated in the alphabetical sequence following.

Research

Technical literature

Special localities

Great Britain

Physico-chemical aspects

Electron microscopy

Particles

Physics

Surface area measurement

Specific heat

Chemistry

Solvent extraction

Spectrophotometry

Thermal analysis

Heating

Combustion

Ignition

Thermal decomposition

Oxidation

Carbonisation

Depolymerisation

Reaction with...

Constituents

Macerals

Ash

Carbon

Moisture

Determination of...

Geology

Seams

Technical operations

Prospecting

Mining

Reclamation

Preparation

Flotation

Cleaning

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Briquetting

Mechanical handling

Distribution

Transport

Pipelines

Storage

Sacks

Bunkers

Forms of coal

Pulverised

Carbonised

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Bituminous

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COAL, Boilers. See BOILERS, Coal**COAL, Briquetting, Plant**

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COAL, Mining, Conveyors, Belts, Nylon

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COATING

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COLLOIDS

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COMPUTERS

Related Headings:

ANALOGUE—DIGITAL CONVERTORS
CODES, Binary

COMPUTERS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Research

Standardisation

Operators

Bureaux

Education

COMPUTERS—SUBHEADINGS—Synopsis—cont.

Vocational guidance

Particular countries

Great Britain

Scotland

Europe

Spain

Costs

Technical activities

Manufactures

Feasibility reports

Installation

Housing

Buildings

Operations

Sorting

List processing

Differentiation

Programs

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Logical elements

Storage units

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Redundancy techniques

Kinds of computers

Module units

Correlation

Real time

Time sharing

Analogue

Hybrid

Training

Applications

Simulators

Control systems

Data transmission

Aircraft

Flight simulators

Universities

COMPUTERS, Adaptive control systems. See CONTROL

SHIFT REGISTERS

SYSTEMS, Adaptive, Computers

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COMPUTERS, Analogue, Aircraft engineering. See AIR-

CRAFT, Engineering, Computers, Analogue

COMPUTERS, Analogue, Astronautics research. See ASTRO-

NAUTICS, Research, Computers, Analogue

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Navigation, Ships. See SHIPS, Navigation, Radar,

Closest point of approach, Computers, Analogue

COMPUTERS, Analogue, Control system design. See CON-

TROL SYSTEMS, Design, Computers, Analogue

COMPUTERS, Analogue, Control systems, Cement production.

See CEMENT, Production, Control systems, Computers, Analogue

COMPUTERS, Analogue, Control systems, Chemical

engineering. See CHEMICAL ENGINEERING, Control systems, Computers, Analogue

COMPUTERS, Analogue, Control systems, L.D., Oxygen process, Steel production. See STEEL, Production, Oxygen

process, L.D., Control systems, Computers, Analogue

COMPUTERS, Analogue, Control systems, Ships. See SHIPS,

Loading, Control systems, Computers, Analogue

COMPUTERS, Analogue, Correctors, Baseline drift, Gas

chromatography. See GAS CHROMATOGRAPHY,

Baseline drift, Correctors, Computers, Analogue

COMPUTERS, Analogue, Ekelund spread equation solution,

Hot rolling, Steel, Strips. See STRIPS, Steel, Rolling,

Hot, Ekelund spread equation, Solution, Computers,

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CIRCUITS, Electronics, Design, Computers, Analogue

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Analysis, Computers, Analogue

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RAILWAYS, Electric, Power transmission lines, Over-

head, Pantographs, Testing, Computers, Analogues

COMPUTERS, Analogue, Simulation, Chemical reactors. See CHEMICAL REACTORS, Simulators, Computers, Analogue

COMPUTERS, Analogue, Simulation, Distribution, Water supplies. See WATER, Supplies, Distribution, Simulators, Computers, Analogue

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COMPUTERS, Analogue, Simulation, Steam generating heavy water moderated nuclear reactors. See NUCLEAR REACTORS, Heavy water moderated, Steam generating, Simulation, Computers, Analogue

COMPUTERS, Analogue, Simulation, Stock control. See STOCK CONTROL, Simulation, Computers, Analogue

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COMPUTERS, Combustion studies, Town gas. See GAS (Town) Combustion, Studies, Computers

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COMPUTERS, Composing, Printing. See COMPOSING (Printing) Computers

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- COMPUTERS, Control systems, Cold rolling, Steel, Strips. See STRIPS, Steel, Rolling, Cold, Control systems, Computers
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- COMPUTERS, Control systems, Electric power systems. See ELECTRIC POWER SYSTEMS, Control systems, Computers
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- COMPUTERS, Control systems, LD-AC, Oxygen process, Steel production. See STEEL, Production, Oxygen process, LD-AC, Control systems, Computers
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- COMPUTERS, Control systems, Refining, Petroleum. See PETROLEUM, Refining, Control systems, Computers
- COMPUTERS, Control systems, Rolling mills, Steel, Plates. See PLATES, Steel, Rolling, Mills, Control systems, Computers
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- COMPUTERS, Control systems, Sawing, Steel, Billets. See BILLETS, Steel, Sawing, Control systems, Computers
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- COMPUTERS, Control systems, Signals, Traffic, Roads. See ROADS, Traffic, Signals, Control systems, Computers
- COMPUTERS, Control systems, Soaking pits, Steel ingots. See INGOTS, Steel, Soaking pits, Control systems, Computers
- COMPUTERS, Control systems, Starting, Steam turbines, Turbo-alternators. See TURBO-ALTERNATORS, Steam turbines, Starting, Control systems, Computers
- COMPUTERS, Control systems, Steel production. See STEEL, Production, Control systems, Computers
- COMPUTERS, Control systems, Tapping, Ribs, Wings, Military aircraft. See AIRCRAFT, Military, Wings, Ribs, Tapping, Control systems, Computers
- COMPUTERS, Control systems, Teleprinting, Air transport. See AIR TRANSPORT, Teleprinting, Control systems, Computers
- COMPUTERS, Control systems, Town gas distribution. See GAS (Town) Distribution, Control systems, Computers
- COMPUTERS, Control systems, Water engineering. See WATER, Engineering, Control systems, Computers
- COMPUTERS, Control systems, Wet ends, Papermaking machines. See PAPERMAKING, Machines, Wet ends, Control systems, Computers
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- CONCENTRATION, Aqueous solutions. See SOLUTIONS, Aqueous, Concentration
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CEMENT
GUNITE
-
- CONCRETE—SUBHEADINGS—Synopsis**
This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.
- Research
Standardisation
Codes of Practice
- Properties
Density
Surfaces
Strength
Elastic modulus
Stress-strain relationships
Compression
Microcracks
Failure
Creep
Shrinkage
Air-permeability

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Technical activities
 Production
 Mixing
 Mixes
 Mixers
 Testing
 Environmental testing

Materials
 Additives
 Aggregates
 Sand

Kinds of concrete by process
 Pumping
 Ready mixed
 Precast
 Lightweight
 Lightweight aggregate
 Aerated
 Reinforced
 Prestressed
 Biaxially stressed

Kinds of concrete by material
 White cement

Kinds of concrete by function
 Decorative
 Heat-resistant

Applications
 Building materials

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- CONDUCTIVITY, Electrical, Fluids, Magnetohydrodynamic generators. See MAGNETOHYDRODYNAMICS, Generators, Fluids, Conductivity, Electrical
- CONDUCTIVITY, Electrical, Gas-Dust suspensions, Magnetohydrodynamic generators. See MAGNETOHYDRODYNAMICS, Generators, Gas-Dust suspensions, Conductivity, Electrical
- CONDUCTIVITY, Electrical, Glass. See GLASS, Electrical conductivity
- CONDUCTIVITY, Electrical, Hexane. See HEXANE, Conductivity, Electrical
- CONDUCTIVITY, Electrical, Hot carrier, Germanium, Semiconductor. See SEMICONDUCTORS, Germanium, Hot carrier conduction
- CONDUCTIVITY, Electrical, Oil, Transformers. See TRANSFORMERS, Oil, Conductivity
- CONDUCTIVITY, Electrical, Oxide films, Zirconium anodes. See ANODES, Zirconium, Oxide films, Electrical conductivity
- CONDUCTIVITY, Electrical, Semiconductors, Silver sulphide. See SILVER SULPHIDE, Semiconductors, Conductivity
- CONDUCTIVITY, Electrical, Single crystals, Alumina. See ALUMINA, Crystals, Single, Conductivity, Electrical
- CONDUCTIVITY, Electrical, Single crystals, Cadmium sulphide films. See FILMS, Cadmium sulphide, Crystals, Single, Conductivity
- CONDUCTIVITY, Electrical, Single crystals, Calcium fluoride. See CALCIUM FLUORIDE, Crystals, Single, Conductivity
- CONDUCTIVITY, Electrical, Single crystals, Strontium titanate. See STRONTIUM TITANATE, Crystals, Single, Electrical conductivity
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- CONDUCTIVITY, Thermal, Barium-Bismuth glass. See GLASS, Barium-Bismuth, Thermal conductivity
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CONTAINERS

Related Headings:

BAGS
BINS
BOTTLES
BOXES
BUNKERS
CANS
CARTONS
CASKS
CRATES
DRUMS
SACHETS
SACKS
STILLAGES
TANKS
TOTE BOXES
TUBES, Collapsible
VESSELS
VIALS

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ACTUATORS
ALARM SCANNERS
CYBERNETICS
FEEDBACK
GOVERNORS
POSITIONING CONTROL
PROGRAMMERS
SERVOMECHANISMS
SERVO VALVES
SWITCHES, Proximity

CONTROL SYSTEMS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following

*History**Engineers**Research**Diagrams**Mimic diagrams**Properties**Dynamics**Transfer functions**Noise**Stability**Transients**Backlash**Response**Time response**Lag**Hysteresis losses**Flat spectrum input**Invariance**Analysis**Design*

CONTROL SYSTEMS—SUBHEADINGS—Synopsis—cont.

- Theory
 - Pontrjagin's principle
 - Redundancy techniques
- Manufactures
- Components
 - Instruments
 - Computers
 - Logical elements
 - Multipliers
 - Phase advance networks
 - Shaft encoders
 - Semiconductors
 - Crystal ovens
 - Electric motor elements
 - Capacitance detectors
 - Inductance detectors
 - Photoelectric cells
 - Optical equipment
 - Valves
 - Module units
- Kinds of control systems
 - Fluid
 - Fluid jet
 - Hydraulic
 - Pneumatic
 - Electro-hydraulic
 - Ultrasonic
 - Relay
 - Adaptive
 - Hill climbing
 - Third order
 - Fourth order
- Non-linear
- Multivariable
- Time dependent
- Minimum time
- Discrete—continuous
- Discontinuous
 - Sampled data
- Applications
 - Mechanical engineering
 - Boilers
 - Internal combustion engines
 - Gas turbines
 - Mechanical handling
 - Conveyors
 - Weighing machines
 - Machine tools
 - Lathes
 - Jig borers
 - Indexing machines
 - Electrical engineering
 - Converters
 - Electrical machinery
 - Alternators
 - Electric motors
 - Electric power systems
 - Power stations
 - Hydroelectric power stations
 - Nuclear power stations
- Transport
 - Railways
 - Motor vehicles
 - Motor cars

CONTROL SYSTEMS—SUBHEADINGS—Synopsis—cont.

- Transport—cont.
 - Ships
 - Warships
 - Warehouses
 - Agricultural equipment
 - Agricultural machinery
 - Swimming baths
-
- CONTROL SYSTEMS, Acetic acid production. See ACETIC ACID, Production, Control systems
- CONTROL SYSTEMS, Acid dyes, Dyeing, Cotton, Fabrics. See FABRICS, Cotton, Dyeing, Dyes, Acid, Control systems
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- CONTROL SYSTEMS, Air conditioning, Motor cars. See MOTOR CARS, Air conditioning, Control systems**
- CONTROL SYSTEMS, Air conditioning, Office buildings. See OFFICE BUILDINGS, Air conditioning, Control systems**

- CONTROL SYSTEMS, Air-Gas reversal, Stoves, Blast furnaces.** See FURNACES, Blast, Stoves, Air-Gas reversal, Control systems
- CONTROL SYSTEMS, Alarm signal processing, Nuclear power stations.** See NUCLEAR POWER STATIONS, Alarm signals, Processing, Control systems
- CONTROL SYSTEMS, Alternators**
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- CONTROL SYSTEMS, Astronautic vehicles.** See ASTRO-NAUTICS, Vehicles, Control systems
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- CONTROL SYSTEMS, Batching, Raw jute.** See JUTE, Raw, Batching, Control systems
- CONTROL SYSTEMS, Blast furnaces.** See FURNACES, Blast, Control systems
- CONTROL SYSTEMS, Board paper manufactures.** See BOARD, Paper, Manufactures, Control systems
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- CONTROL SYSTEMS, Boilers, Heating, Buildings.** See BUILDINGS, Heating, Boilers, Control systems
- CONTROL SYSTEMS, Boilers, Heating, Houses.** See HOUSES, Heating, Boilers, Control systems
- CONTROL SYSTEMS (Boilers) Safety**
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- CONTROL SYSTEMS, Boiling water reactors.** See NUCLEAR REACTORS, Boiling water, Control systems
- CONTROL SYSTEMS, Brazing, Electrical contacts.** See CONTACTS, Electrical, Brazing, Control system
- CONTROL SYSTEMS, Brick manufactures.** See BRICKS, Manufactures, Control systems
- CONTROL SYSTEMS, Bunker conveyors, Coal mining.** See COAL, Mining, Conveyors, Bunker, Control systems
- CONTROL SYSTEMS, Cake manufacture.** See CAKE, Manufacture, Control systems
- CONTROL SYSTEMS, Cameras, Recorders, Dial readings, Instruments.** See INSTRUMENTS, Dials, Readings, Recorders, Cameras, Control systems
- CONTROL SYSTEMS, Cane sugar production.** See SUGAR, Production (Sugar cane) Control systems
- CONTROL SYSTEMS, Capacitance detectors**
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- CONTROL SYSTEMS, Capstan lathes.** See LATHES, Capstan, Control systems
- CONTROL SYSTEMS, Carding.** See CARDING, Control systems
- CONTROL SYSTEMS, Carding machines.** See CARDING, Machines, Control systems
- CONTROL SYSTEMS, Casting, Brass, Valves.** See VALVES, Brass, Casting, Control systems
- CONTROL SYSTEMS, Casting, Grey iron, Machine tool components.** See MACHINE TOOLS, Components, Iron, Grey, Casting, Control systems
- CONTROL SYSTEMS, Cement kilns.** See CEMENT, Kilns, Control systems
- CONTROL SYSTEMS, Cement production.** See CEMENT, Production, Control systems
- CONTROL SYSTEMS, Centre lathes.** See LATHES, Centre, Control systems
- CONTROL SYSTEMS, Centreless grinding, Stainless steel, Bars.** See BARS, Steel, Stainless, Grinding, Centreless, Control systems
- CONTROL SYSTEMS, Centreless grinding machines.** See GRINDING, Centreless, Machines, Control systems
- CONTROL SYSTEMS, Charging machines, Blast furnaces.** See FURNACES, Blast, Charging, Machines, Control systems
- CONTROL SYSTEMS, Chemical engineering.** See CHEMICAL ENGINEERING, Control systems
- CONTROL SYSTEMS, Cleaning, Dairy industry equipment.** See DAIRY INDUSTRY, Equipment, Cleaning, Control systems
- CONTROL SYSTEMS, Coal mining.** See COAL, Mining, Control systems
- CONTROL SYSTEMS, Coal-fired kilns, Bricks.** See BRICKS, Kilns, Coal-fired, Control systems
- CONTROL SYSTEMS, Coal mining.** See COAL, Mining, Control systems
- CONTROL SYSTEMS, Coating, Paper.** See PAPER, Coating, Control systems
- CONTROL SYSTEMS, Coating, Stone, Roads.** See ROADS, Stone, Coating, Control systems
- CONTROL SYSTEMS, Cold rolling, Steel strips.** See STRIPS, Steel, Rolling, Cold, Control systems
- CONTROL SYSTEMS, Columns, Fractional distillation, Methyl alcohol-Water.** See METHYL ALCOHOL-WATER, Distillation, Fractional, Columns, Control systems
- CONTROL SYSTEMS, Combustion, Town gas.** See GAS (Town) Combustion, Control systems
- CONTROL SYSTEMS, Compaction machines, Green sand moulds.** See MOULDS, Sand, Green, Compaction, Machines, Control systems
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- CONTROL SYSTEMS, Drying, Grain.** See **GRAIN, Drying, Control systems**
- CONTROL SYSTEMS, Dyeing, Fabrics.** See **FABRICS, Dyeing, Control systems**
- CONTROL SYSTEMS, Dyeing, Tufted nylon carpets.** See **CARPETS, Nylon, Tufted, Dyeing, Control systems**
- CONTROL SYSTEMS, Dynamics, Measurement, Cross-correlators, Transducers, Errors**
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- CONTROL SYSTEMS, Effect on design, Industrial buildings.** See **INDUSTRIAL BUILDINGS, Design, Effect of control systems**
- CONTROL SYSTEMS, Effluent treatment, Pollution, Water.** See **WATER, Pollution, Effluent treatment, Control systems**
- CONTROL SYSTEMS, Effluent treatment plant, Electroplating.** See **ELECTROPLATING, Effluents, Treatment, Plant, Control systems**
- CONTROL SYSTEMS, Electric motor elements**
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- CONTROL SYSTEMS, Electro-hydraulic, Switching circuits, Contactless**
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- CONTROL SYSTEMS, Electronic equipment, Quarrying.** See **QUARRYING, Electronic equipment, Control systems**
- CONTROL SYSTEMS, Electroplating.** See **ELECTROPLATING, Control systems**
- CONTROL SYSTEMS, Electrostatic spraying, Paint, Steering wheels, Motor vehicles.** See **MOTOR VEHICLES, Steering wheels, Paint, Spraying, Electrostatic, Control systems**
- CONTROL SYSTEMS, Elliptical gear cutting machines.** See **GEARS, Elliptical, Cutting, Machines, Control systems**
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- CONTROL SYSTEMS, Finishing, Fabrics.** See **FABRICS, Finishing, Control systems**
- CONTROL SYSTEMS, Fire tube boilers.** See **BOILERS, Fire tube, Control systems**
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- CONTROL SYSTEMS, Fluid jet, Gas turbines, Aircraft.** See AIRCRAFT, Gas turbines, Control systems, Fluid jet
- CONTROL SYSTEMS, Food processing.** See FOOD, Processing, Control systems
- CONTROL SYSTEMS, Forging machines.** See FORGING, Machines, Control systems
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- CONTROL SYSTEMS, Fourth order, Analysis, Root locus**
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COOLING

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SUPERCHILLING

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COOLING SYSTEMS

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CRYO-GETTER PUMPS

CRYOMAGNETISM

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CRYSTALLISATION, Periclase, Blast furnace slag cement. See CEMENT, Blast furnace slag, Periclase, Crystallisation

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CRYSTALLISATION, Titanium dioxide, Effect on dielectric properties, Calcium borosilicate, Glass. See GLASS, Calcium borosilicate, Dielectric properties, Effect of titanium dioxide crystallisation

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CRYSTALS

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DISLOCATIONS

PREFERRED ORIENTATION

STACKING FAULTS

TWINNING

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X-RAYS, Diffraction

X-RAYS, Diffractometers

CRYSTALS, Alkali halides. See ALKALI HALIDES, Crystals

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- CRYSTALS, Quartz, Resonators, Thermometers.** See **THERMOMETERS, Resonators, Quartz crystals**
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- CRYSTALS, Single, Aluminium.** See **ALUMINIUM, Crystals, Single**
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SAWING

SHEARING

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CYCLIC COMPOUNDS

Related Headings:

ABIETIC ACID
ACETANILIDE
ACETOPHENONE
ALKYLARYL SULPHONATES
AMINES, Aromatic
ANILINE
AROMATIC COMPOUNDS
ASCORBIC ACID
BENZENE
BENZENECARBOXYLIC ACIDS
BENZOCYCLOBUTENE
BENZYLAMINE
N-BENZYLDIMETHYLAMINE
BENZYL TRIMETHYLAMMONIUM HYDROXIDE
BENZYLENE
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BICYCLO [3.2.1] OCTA-3,6, DIEN-2-ONE
CAMPHENE
3-CARENE
α-CHLORONAPHTHALENE
CRESOL
CUMENE HYDROPEROXIDE
CYANOPHENYLACETONITRILE
CYCLAMATES
CYCLOBUTANE-1, 2-DICARBOXYLIC ACIDS
CYCLOBUTANONE
cis, trans, trans-1,5,9-CYCLODODECATRIENE
CYCLOHEXANE
CYCLOHEXENE
CYCLOPROPYL-1-HYDROXY-2-NAPHTHYLACETIC
1-CYCLOPROPYL-1-(p-METHOXYPHENYL) PROP-1-ACID
α-CYCLOPROPYLSTYRENE
3,5-DI-*p*-BUTYLPHENYL ESTERS
DI-(2-AMINOETHOXY)-ETHANETETRAACETIC ACID
4,4'-DIAMINOSTILBENE-DISULPHONIC ACIDS
DI-2-ETHYL-HEXYL PHTHALATE
DIAZO COMPOUNDS, Photocopying
endo-6-DIAZOMETHYLKETOBICYCLO [3.1.0] HEX-2-ENE
gem-DIBROMOCYCLOPROPANE
DIBUTYL PHTHALATE
DICHLOROFORMATES, Aromatic
DIMEDONE
DINITROANILINE
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DODECYLBENZENE
ENAMINES, Cyclic

CYCLIC COMPOUNDS

Related Headings—cont.

ETHYNYLCYCLOHEXANOL

EUGENOL

FLUOROCARBONS, Aromatic

HETEROCYCLIC COMPOUNDS

HEXACHLOROBENZENE

HEXACHLOROCYCLOPENTADIENE

HYDROBENZOIC ACIDS

HYDROCARBONS, Aromatic

HYDROQUINONE

o-HYDROXYMERCURIBENZOIC ACID

INDANETRIONE

ISOPROPYL-N'-PHENYL-P-PHENYL ENEDIAMINE

LACTONES

M.C.P.

MALEIC ANHYDRIDE

METHYL-*para*-AMINOPHENOL SULPHATE

2-METHYLANTHRACENE

3-METHYLCYCLOPENT-2-ENONE-ACETIC ACID

4-METHYLPENTENE

METHYLSULPHINYLCARBANION

MORPHOLINE

1-NAPHTHYL N-METHYLCARBAMATE

OCTACHLORODIBENZOTHIOPEN

3-OXO-1,2-CYCLOPENTENOPHENANTHRENE

PHENANTHRENE

PENTACHLOROBENZENEPHENYL

PHENANTHROLINE

PHENETHYL ALCOHOL

PHENYLAZOBENZENESULPHONIC ACID

PHENOL

PHENYL HYDRAZONES

PHENYLALANINE

PHENYLARSONIC ACID

1,4-PHENYLENE DIPHOSPHORUS COMPOUNDS

3-PHENYLINDENE

PHENYLMAGNESIUM BROMIDE

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PHTHALIC ANHYDRIDE

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POLYPYROMELLITIMIDE, Aromatic

QUINONES

SALICYLIC ACIDS

SODIUM-9, 10-ANTHRAQUINONE-2-SULPHONATE

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TERPENES

TETRAFLUORONAPHTHALENE

TETRAMETHYLCYCLOPROPANONE

TOLUENE

p-TOLUENE SULPHONATE

p-TOLUENE SULPHONIC ACID

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2,4,6-TRINITROANISOLE

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TRIPHENYLMETHANE

TRIPHENYLMETHYL

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Related Headings:

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DIELECTRIC PROPERTIES, Calcium borosilicate, Glass. See GLASS, Calcium borosilicate, Dielectric properties

DIELECTRIC PROPERTIES, Rubber. See RUBBER, Dielectric properties

DIELECTRIC PROPERTIES, Solid argon. See ARGON, SOLID, Dielectric properties

DIELECTRIC PROPERTIES, Vitrinite, Macerals, Coal. See COAL, Macerals, Vitrinite, Dielectric properties

DIELECTRIC RELAXATION, Point defects, Crystals. See CRYSTALS, Point defects, Dielectric relaxation

DIELECTRIC RODS, Aerials. See AERIALS, Rods, Dielectric

DIELECTRIC SCREENING, Electronic structure, Metals. See METALS, Electronic structure, Dielectric screening

DIELECTRIC SPHERES. See SPHERES, Dielectric

DIELECTRIC STRENGTH, Hexane. See HEXANE, Dielectric strength

DIELECTRIC THAWING, Frozen fish. See FISH, Frozen, Thawing, Dielectric

DIELECTRICS

Related Headings:

BREAKDOWN

ELECTRIC STRENGTH

INSULATING MATERIALS, Electrical

INSULATING OILS

DIELECTRICS, Attenuation, Ultrasonics. See ULTRASONICS, Attenuation, Dielectrics

DIELECTRICS, Loaded waveguides. See WAVEGUIDES, Loaded, Dielectrics

DIELECTRICS, Microwaves

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DIELECTRICS-PLASMAS, Surface waveguides. See WAVEGUIDES, Surface, Plasma-Dielectric

DIELS HYDROCARBONS, Production, Hydrocarbons, Aromatic, Acylation

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Tough metals formed cold [Lockheed-Georgia Co., U.S.A.] C. W. Phillips. *Metalworking Production*, 109 (3 Nov 65) p.50-2. il.

DIES, Conical, Extrusion. See EXTRUSION, Dies, Conical

DIES, Conical, Sinking, Tubes. See TUBES, Sinking, Dies, Conical

DIES, Curved, Drawing. See DRAWING, Dies, Curved

DIES, Cushions

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DIES, Diamond, Drawing, Hairspring manufactures. See HAIR-SPRINGS, Manufactures, Drawing, Dies, Diamond

DIES, Diamond, Drawing, Molybdenum, Filaments, Electric lamps. See LAMPS, Electric, Filaments, Molybdenum, Drawing, Dies, Diamond

DIES, Diamond, Drawing, Tungsten, Filaments, Electric lamps. See LAMPS, Electric, Filaments, Tungsten, Drawing, Dies, Diamond

DIES, Diamond, Drawing, Wires, Electron tubes. See ELECTRON TUBES, Wires, Drawing, Dies, Diamond

DIES, Die casting. See DIE CASTING, Dies

DIES, Die forging. See DIE FORGING, Dies

DIES, Drop forging. See FORGING, Drop, Dies

DIES, Extruders, Plastics. See PLASTICS, Extruders, Dies

DIES, Forming, Presses, Hydraulic

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- DIES, Graphite, Continuous casting, Non-ferrous metals. See NON-FERROUS METALS, Casting, Continuous, Dies, Graphite
- DIES, Inserts, Drop forging. See FORGING, Drop, Dies, Inserts
- DIES, Lubrication, Oil-mist, Control systems**
Automatic lubricant spray. Fluid Power International, 30 (Nov 65) p.380. il.
- DIES, Metals, Moulding, Reinforced plastics. See PLASTICS, Reinforced, Moulding, Dies, Metals
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- DIES, Polyurethane, Press brakes. See PRESS BRAKES, Dies, Polyurethane
- DIES, Presses, Forming, Brass cups, Tableware. See TABLEWARE, Cups, Brass, Forming, Presses, Dies
- DIES, Pressure die casting. See DIE CASTING, Pressure, Dies
- DIES, Pressworking, Bodies, Motor cars. See MOTOR CARS, Bodies, Pressworking, Dies
- DIES, Roller, Drawing, Metal strips. See STRIPS, Metal, Drawing, Dies, Roller
- DIES, Rule-Steel**
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- DIES, Transfer**
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- DIES, Wire drawing. See WIRES, Drawing, Dies
- DIESEL-ELECTRIC DREDGERS, Ships. See DREDGERS (Ships) Diesel-electric
- DIESEL-ELECTRIC EQUIPMENT, Off shore drilling, Natural gas. See GAS, Natural, Drilling, Off shore, Diesel-electric equipment
- DIESEL-ELECTRIC FLOATING CRANES, Docks. See DOCKS, Cranes, Floating, Diesel-electric
- DIESEL-ELECTRIC JIB CRANES, Railways. See RAILWAYS, Cranes, Jib, Diesel-electric
- DIESEL-ELECTRIC LOCOMOTIVES. See LOCOMOTIVES, Diesel-electric
- DIESEL-ELECTRIC SHUNTERS. See SHUNTERS, Diesel-electric
- DIESEL-ELECTRIC SHUNTERS, Transport, Ores, Iron. See IRON, Ores, Transport, Shunters, Diesel-electric
- DIESEL-ELECTRIC TRAWLERS. See TRAWLERS, Diesel-electric
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America's first high-powered diesel engine: Fairbanks-Morse introduce a range of in-line and Vee-engines of unorthodox configuration to develop 1,000 bhp/cylinder. Gas & Oil Power, 61 (May/Jun 65) p.101-5. il.
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Fifty years in the oil engine industry. P. Jackson. Gas & Oil Power, 51 (Sep/Oct 65) p.173-83. il.

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- First 18-cylinder Pielstick PC engine tested at Sandiacre [Crossley Brothers Ltd.] Gas & Oil Power, 61 (Mar/Apr 65) p.51+. il.
Ford's new industrial diesel range [2700 series of three engines] Gas & Oil Power, 61 (May/Jun 65) p.106-7. il.
General Motors 12V-149 diesel engine. Muck Shifter, 23 (Dec 65) p.51-2. il.
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Highly-rated MAN four-strokes. Gas & Oil Power, 61 (Jan/Feb 65) p.7. il.
Mirreles K-type engine redesigned. Gas & Oil Power, 61 (Mar/Apr 65) p.41-3. il.
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New vee-form diesel engine: extension to Allen S37 range. Power Equipment News (May 65) p.4. il.
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DIESEL ENGINES—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following

*Technical data**History**Problems**Noise**Overspeeding**Properties**Pressure - Volume relationships**Heat transfer**Temperature**Cooling**Thermal stresses**Processes**Combustion**Exhaust**Technical activities**Design**Manufactures*

DIESEL ENGINES—SUBHEADINGS—Synopsis—cont.

Installation
Maintenance
Operation
Braking
Starting

Parts

Components
Cylinders
Pistons
Piston rings
Crankcases
Crankshafts
Connecting rods
Fuel injection nozzles
Fuel injection pumps
Exhaust pipes
Exhaust valves
Turbochargers
Starters
Vibration isolators

Feed materials

Fuels

Kinds of diesel engines

Air cooled
Turbocharged
Differentially supercharged
Two-stroke
Variable compression

Applications

Generators, Electrical
Alternators
Motor vehicles
Commercial vehicles
Lorries
Buses
Motor coaches
Locomotives
Earth moving equipment
Excavators
Agricultural machinery
Agricultural vehicles
Marine
Ships
Tankers
Motor boats

DIESEL ENGINES, Agricultural machinery

Facts & figures for mechanics, pt.13: Perkins 4.107 diesel engine. *Farm Mechanization*, 17 (Mar 65) p.37

DIESEL ENGINES, Agricultural vehicles

Facts & figures for mechanics, pt.15: Perkins 4.203 diesel engine. *Farm Mechanization*, 17 (Jun 65) p.20

DIESEL ENGINES, Air cooled

Air-cooled diesel: improved power/weight ratios achieved. *Power Equipment News* (Feb 65) p.9
And now—British 100 hp air-cooled diesel: Dorman "DA" four and six-cylinder in-line types; 125 hp V8 to come. *Engine Design & Applications*, 1 (May 65) p.10-13. il.
Dorman 4DA air-cooled diesel engine. *Muck Shifter*, 23 (Jun 65) p.69-70. il.

"Simplic" air-cooled diesel engine. E. Chatterton. *Design & Components in Engng.* (10 Jun 65) p.18-23. il.

Simplic air-cooled two-stroke diesel [British Patent No. 988378] *Gas & Oil Power*, 61 (Mar/Apr 65) p.70-1. il.

Simplicity in engine design: an analysis of a unique concept in air-cooled diesels. *Engine Design & Applications*, 1 (Nov 65) p.36-9. il.

DIESEL ENGINES, Air pollution. See **AIR POLLUTION, Diesel engines**

DIESEL ENGINES, Alternators

Electricity plus fresh water for Gibraltar. *Engine Design & Applications*, 1 (Nov 64) p.50-3. il.

Employment of diesel stand-by plant, pt.1: economic background. *Power & Works Engng.*, 60 (May 65) p.24-7. il.

Employment of diesel stand-by plant, pt.2: manually controlled equipment. *Power & Works Engng.*, 60 (Jun 65) p.36-9. il.

Safeguarding a key telephone exchange: two automatic-starting Lister-Blackstone engines are installed for mains failure protection at Reading G.P.O. trunk switching station. *Gas & Oil Power*, 61 (Mar/Apr 65) p.68-9. il.

Standby services for atomic power [Hinkley Point] *Gas & Oil Power*, 61 (Mar/Apr 65) p.64-5. il.

DIESEL ENGINES (Alternators) Control systems

Automatic control of diesel power plant. J. W. Gulliver. *Machinery Lloyd (Overseas ed.)* 37 (25 Sep 65) p.39-41. il.

Employment of diesel stand-by plant, pt.3: automatically controlled equipment. *Power & Works Engng.*, 60 (Jul 65) p.46-8. il.

DIESEL ENGINES (Alternators) Fuel oil

Heavy fuel operation in the Bahamas [running of the large Sulzer engine] *Gas & Oil Power*, 61 (Jan/Feb 65) p.8-10. il.

DIESEL ENGINES (Alternators) Fuel oil, Filters

Compact self-cleaning filter [Fipoca] *Gas & Oil Power*, 61 (Mar/Apr 65) p.53-4. il.

DIESEL ENGINES, Alternators, Reforming, Light petroleum distillates, Town gas production. See **GAS (Town) Production, Light petroleum distillates, Reforming, Alternators, Diesel engines**

DIESEL ENGINES, Alternators, Ships. See **SHIPS, Alternators, Diesel engines**

DIESEL ENGINES, Alternators, Town gas production. See **GAS (Town) Production, Alternators, Diesel engines**

DIESEL ENGINES (Alternators) Turbocharged, Fuel oil

Turbocharged-diesel generating plant burning residual fuels. R. Greenhalgh. *Instn. of Mechanical Engrs. Proc.*, 178 pt.3K (1963/64) p.74-91. il.

DIESEL ENGINES, Braking

Better engine braking: conversion device enables full use of engine compression [Jacobs Manufacturing Co. Ltd.] *Design & Components in Engng.* (8 Jul 65) p.16-17. il.

DIESEL ENGINES, Braking, Commercial vehicles. See **VEHICLES, Commercial, Braking, Diesel engines**

DIESEL ENGINES, Brushless D.C. generators, Arc welding. See **WELDING, Arc, Generators, D.C., Brushless, Diesel engines**

DIESEL ENGINES, Buses

A. E. C. Swift, pt.1: engine. *Automobile Engr.*, 55 (Jul 65) p.302-8. il.

DIESEL ENGINES, Combustion

Lanova combustion system. I. H. Lang. *Engine Design & Applications*, 1 (Aug 65) p.4-7. il.

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DIESEL ENGINES, Commercial vehicles. See **VEHICLES, Commercial, Diesel engines**

DIESEL ENGINES, Components, Fatigue tests

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DIESEL ENGINES, Components, Iron, Cast

Use of cast irons in modern diesel engine design. J. A. Pope. *Brit. Foundryman*, 58 (Jun 65) p.207-24. il. refs.

DIESEL ENGINES, Components, Iron, Cast—cont.

Use of cast irons in modern diesel-engine design. J. A. Pope. *Foundry Trade J.*, 119 (2 Sep 65) p.287-304. il. refs.

DIESEL ENGINES, Components, Machining, Diamond

Wider scope for diamond machining: recent honing and grinding developments have especial importance in engine manufacture. *Engine Design & Applications*, 1 (Aug 65) p.26-7. il.

DIESEL ENGINES, Components, Machining, Transfer machines, Tool changing

Tool control boards boost transfer line efficiency [Perkins' Eastfield factory] P. J. Varley. *Metalworking Production*, 109 (30 Jun 65) p.64-5. il.

DIESEL ENGINES, Components, Packaging, Conveyors, Belt

Gramac at Perkins group: £4 million extension. *Mass Production*, 41 (Feb 65) p.113-14. il.

DIESEL ENGINES, Components, Powder metallurgy, Sintered

High density sintered parts from low cost tooling [Machine Products Ltd.] L. H. Sanders. *Metalworking Production*, 109 (24 Nov 65) p.64-6. il.

Sintered components for I.C. engines. I. A. Mackie. *Engng. Materials & Design*, 8 (Sep 65) p.632-3. il.

Sintered components speed diesel engines [Machine Products Ltd] *Mass Production*, 41 (Oct 65) p.21-2. il.

Sintered components speed diesel engines [Machine Products Ltd.] *Tooling*, 19 (Nov 65) p.63-4. il.

Sintered parts solve cost problem [new Petters portable AA1 diesel engine] I. A. Mackie. *Metalworking Production*, 109 (15 Sep 65) p.70-2. il.

DIESEL ENGINES, Components, Storage

Two tier storage of 10,000 diesel engine parts [Perkins Group] *Storage Handling Distribution*, 9 (Apr 65) p.96+.

DIESEL ENGINES, Connecting rods, Manufactures, Machines

Some automatic machines for connecting rod production: selected items of equipment installed in the new No.2 Works of the Perkins Group, Peterborough. A. W. Astrop. *Machinery*, 106 (16 Jun 65) p.1310-13. il.

DIESEL ENGINES, Cooling, Fans

Air blast coolers [Spiral Tube] *Engine Design & Applications*, 1 (Oct 64) p.48-9. il.

DIESEL ENGINES, Crankcases, Stresses

Theoretical and experimental stress analysis of a diesel engine crankcase. M. P. Thomas & A. Scholes. *Instn. of Mechanical Engrs. Proc.*, 178 pt.3J (1963/64) p.231-80. il. refs.

DIESEL ENGINES, Crankshafts, Grinding, Machines

Tons-20 feet-35 Microinch-8 [Churchill Machine Tool Co. Ltd.] *Brit. Machine Tool Engng.*, 47 (Summer 65) p.33-8. il.

DIESEL ENGINES, Crankshafts, Grinding, Wheels, Dressing

Crankshaft grinding and wheel dressing [Triefus Industries Ltd.] *Mass Production*, 41 (Nov 65) p.125-7. il.
Dressing crankshaft grinding wheels with Triefus diamond tools. *Machinery*, 107 (18 Aug 65) p.346-8. il.

DIESEL ENGINES, Crankshafts, Manufactures

New Perkins crankshaft line [Perkins Group] A. W. Astrop. *Machinery*, 107 (13 Oct 65) p.812-16. il.

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DIESEL ENGINES, D.C. generators. See GENERATORS, Electrical, D.C., Diesel engines**DIESEL ENGINES, Design, Models**

Structural model techniques and their application to oil engine design. G. W. Morland, S. Ganguly & K. Atkin. *Instn. of Mechanical Engrs. Proc.*, 179 pt.1 no.17 (1964-65) p.513-32. il. refs.

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DIESEL ENGINES, Diesel-electric locomotives. See LOCOMOTIVES, Diesel-electric, Engines**DIESEL ENGINES, Differentially supercharged**

Differentially supercharged diesel engine [Perkins] *Power Equipment News* (Jun 65) p.2

DIESEL ENGINES, Earth moving equipment

Cummins V6-140 diesel engine. *Muck Shifter*, 23 (Jul 65) p.45-6. il.

Diesel engines and transmissions for earth-moving equipment. F. R. Porter. *Instn. of Mechanical Engrs. Proc.*, 179 pt. 3F (1964-65) p.106-14. il.

Engines: Ruston 6YDA Mk.2 air-cooled diesel engine.

specification sheet. *Muck Shifter*, 23 (Mar 65) p.57-8. il.

DIESEL ENGINES (Earth moving equipment) Air filters

Air filtration for engines operating under dusty conditions. T. C. D. Manby. *Inst. of Mechanical Engrs. Proc.*, 179 pt.3F (1964-65) p.123-48. il. refs.

DIESEL ENGINES, Excavators

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Making an earthmover move [JCB] *Engine Design & Applications*, 1 (Oct 64) p.46-7. il.

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DIESEL ENGINES, Exhaust, Smoke, Inhibitors

Smoke levels and fuel additives. P. A. C. Brockington. *Commercial Motor*, 121 (21 May 65) p.65

DIESEL ENGINES, Exhaust, Waste heat recovery, Water jackets

Steam from diesel engines. J. N. Williams. *Power & Works Engng.* (Mar 65) p.14-18. il.

DIESEL ENGINES, Exhaust pipes, Filters, Gauze, Flow, Unsteady

Non-steady flow through a gauze in a duct. R. S. Benson & P. C. Baruah. *J. of Mechanical Engng. Science*, 7 (Dec 65) p.449-59. il. refs.

DIESEL ENGINES, Exhaust valves, Maintenance

Extending exhaust valve life [Mirreles National K Major] *Gas & Oil Power*, 51 (Sep/Oct 65) p.216-17. il.

DIESEL ENGINES, Fishing vessels. See FISHING, Vessels, Diesel engines**DIESEL ENGINES, Fuel injection nozzles**

Rosa Master 'Pencil' injector nozzle [Standard Screw Co., Conn. U.S.A.] *Automotive Design Engng.*, 5 (Mar 65) p.60+ il.

DIESEL ENGINES, Fuel injection pumps

Bryce XX fuel pump: [Mirreles K-Major] *Gas & Oil Power*, 61 (Mar/Apr 65) p.66-7. il.

DIESEL ENGINES, Fuel injection-pumps, Check valves, Needles, Grinding, Machines

Continuous automatic grinding of contoured parts from hardened bar stock [Sheffield] *Machinery*, 106 (10 Mar 65) p.528-30. il.

DIESEL ENGINES, Fuel injection pumps, Manufactures Value analysis

Value analysis applied to mass production [Simms Minimec fuel injection pump] H. G. Dunn. *Mass Production*, 41 (Dec 65) p.62-3. il.

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DIESEL ENGINES, Fuels, Performance, Maps

Using fuel performance maps. H. H. Weiss. Gas & Oil Power, 61 (Jan/Feb 65) p.29-30

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Chrysler-Cummins factory at Darlington. Gas & Oil Power, 61 (Jul/Aug 65) p.152-3. il.

Engines galore [Perkins Group] Machinery Lloyd (Overseas ed.) 37 (8 May 65) p.26-32. il.

Expansion to meet increased engine production [Perkins] J. Buck. Mechanical Handling, 52 (Jun 65) p.283-7. il.

Mass producing diesel engines [Perkins Group] T. M. R. Green. Mass Production, 41 (May 65) p.33-42. il.

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New Perkins plant encourages quality consciousness. Metalworking Production, 109 (7 Apr 65) p.67-70. il.

Oil engine factory [Peterborough works of F. Perkins Ltd.] Engineer, 219 (26 Mar 65) p.567-9. il.

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CPS cut the headaches from Perkins' £4m. expansion. P. J. Varley. Metalworking Production, 109 (17 Mar 65) p.49-51. il.

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James Archdale major suppliers to Spanish diesel plant. A. W. Astrop. Machinery, 107 (25 Aug 65) p.396-403. il.

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Oil engine production line [Perkins Manufacturing Company] Engineer, 219 (19 Mar 65) p.501. il.

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DIFFERENTIAL EQUATIONS, Sturm-Liouville, Eigenvalues

Series solution of certain Sturm-Liouville eigenvalue problems. D. J. Green & S. Michaelson. *Computer J.*, 7 (Jan 65) p.322-36. refs.

DIFFERENTIAL HYDROSTATIC TRANSMISSIONS. See TRANSMISSIONS, Hydrostatic, Differential**DIFFERENTIAL INFRA-RED SPECTROSCOPY. See SPECTROSCOPY, Infra-red, Differential****DIFFERENTIAL THERMAL ANALYSIS. See THERMAL ANALYSIS, Differential****DIFFERENTIAL THERMAL ANALYSIS, Coal. See COAL, Thermal analysis, Differential****DIFFERENTIAL THERMAL ANALYSIS, Inorganic chemicals. See INORGANIC CHEMICALS, Thermal analysis, Differential****DIFFERENTIAL THERMAL ANALYSIS, Organic chemicals. See ORGANIC CHEMICALS, Thermal analysis, Differential****DIFFERENTIAL THERMAL ANALYSIS, Textiles. See TEXTILES, Thermal analysis, Differential****DIFFERENTIAL THERMAL ANALYSIS, Thermal expansion measurement, Softening point determination, Asphalt. See ASPHALT, Softening point, Determination, Thermal expansion, Measurement, Thermal analysis, Differential****DIFFERENTIALLY SUPERCHARGED DIESEL ENGINES. See DIESEL ENGINES, Differentially supercharged****DIFFERENTIALS, Transmissions, Farm tractors. See TRACTORS, Farm, Transmissions, Differentials****DIFFERENTIALS, Transmissions, Motor cars. See MOTOR CARS, Transmissions, Differentials****DIFFERENTIALS, Transmissions, Motor vehicles. See**

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DIFFRACTION, Radiography, Gamma radiation. See GAMMA RADIATION, Radiography, Diffraction**DIFFRACTION, X-ray. See X-RAYS, Diffraction****DIFFRACTION, X-rays, Annealed aluminium. See ALUMINIUM, Annealed, X-ray diffraction****DIFFRACTION, X-rays, Annealed aluminium-copper. See**

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- DIFFRACTION, X-rays, High pressure studies, Solids.** See SOLIDS, High pressure, Studies, X-ray diffraction
- DIFFRACTION, X-ray, Humeria umbellata seeds.** See HUMERIA UMBELLATA, Seeds, X-ray diffraction
- DIFFRACTION, X-rays, Iron-Tin intermetallic compound, Tin-plate production.** See TINPLATE, Production, Iron-Tin intermetallic compound, X-ray diffraction
- DIFFRACTION, X-rays, Irradiation studies, Single crystals, Magnesium oxide.** See MAGNESIUM OXIDE, Crystals, Single, Irradiation, Studies, X-ray diffraction
- DIFFRACTION, X-rays, Keratin, Wool.** See WOOL, Keratin, X-ray diffraction
- DIFFRACTION, X-rays, Mineralogy studies, Firing, Ceramics manufactures.** See CERAMICS, Manufactures, Firing, Mineralogy, Studies, X-ray diffraction
- DIFFRACTION, X-rays, Plastic deformation, Calcite.** See CALCITE, Plastic deformation, X-ray diffraction
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- DIFFRACTION, X-rays, Solubility boundary studies, Alpha phase, Cadmium-Zinc.** See CADMIUM-ZINC, Alpha phase, Solubility boundaries, Studies, X-ray diffraction
- DIFFRACTION, X-rays, Temper rolling studies, Mild steel, Sheets.** See SHEETS, Steel, Mild, Temper, Rolling, Studies, X-ray diffraction
- DIFFRACTION, X-rays, Thallium borate glass studies.** See GLASS, Thallium borate, Studies, X-ray diffraction
- DIFFRACTION, X-rays, Thorium dioxide.** See THORIUM DIOXIDE, X-ray diffraction
- DIFFRACTION, X-rays, Twinning, Amethyst.** See AMETHYST, Twinning, X-ray diffraction
- DIFFRACTION, X-rays, Urea clathrates.** See UREA CLATHRATES, X-ray diffraction
- DIFFRACTION, X-rays, Vibrations studies, Quartz crystals.** See QUARTZ, Crystals, Vibrations, Studies, X-ray diffraction
- DIFFRACTOMETERS, X-rays.** See X-RAYS, Diffractometers
- DIFFUSED-BASE TRANSISTORS.** See TRANSISTORS, Diffused-base
- DIFFUSERS, Conical, Fluids, Flow, Effect of inlet conditions**
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- DIFFUSION**
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SELF DIFFUSION
- DIFFUSION, Aluminium ammonium sulphate.** See ALUMINIUM AMMONIUM SULPHATE, Diffusion
- DIFFUSION, Aluminium potassium sulphate.** See ALUMINIUM POTASSIUM SULPHATE, Diffusion
- DIFFUSION, Argon, Magnesium.** See MAGNESIUM, Argon diffusion
- DIFFUSION, Atmospheric gases, Polymers, Adhesives, Seals, Vacuum chambers.** See VACUUM, Chambers, Seals, Adhesives, Polymers, Gases, Atmospheric, Diffusion
- DIFFUSION, Bicrystals.** See BICRYSTALS, Interdiffusion
- DIFFUSION, Cadmium ions, Hydrochloric acid-Potassium chloride solutions, Cadmium electrodes.** See ELECTRODES, Cadmium, Hydrochloric acid-Potassium chloride solutions, Cadmium ions diffusion
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- DIFFUSION, Coefficient, Halides reduction, Molten lithium nitrate-Potassium nitrate-Sodium nitrate, Rotating discs, Platinum cathodes.** See CATHODES, Platinum, Rotating disc, Molten lithium nitrate-Potassium nitrate-Sodium nitrate, Halides reduction, Diffusion coefficient
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- DIFFUSION, Fission products (Glass, Containers, Storage) Waste products, Nuclear reactors.** See NUCLEAR REACTORS, Wastes, Fission products (Storage, Containers, Glass) Diffusion
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- DIFFUSION, Grain boundaries, Alpha iron.** See IRON, Alpha, Grain boundaries, Diffusion
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- DIFFUSION**, Hydrochloric acid-Ethyl alcohol solutions, Corrosion, Nickel. See **NICKEL**, Corrosion, Hydrochloric acid-Ethyl alcohol solutions, Diffusion
- DIFFUSION**, Interfaces, Powders, Magnesium oxide-Silica, Forsterite production. See **FORSTERITE**, Production, Magnesium oxide-Silica, Powders, Interfaces, Diffusion
- DIFFUSION**, Interstitial, Ion bombardment, Gold. See **GOLD**, Ion bombardment, Interstitial diffusion
- DIFFUSION**, Iron-59, Iron-Silicon. See **IRON-SILICON**, Iron-59 diffusion
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- DIFFUSION**, Mercury, Single crystals, Gold. See **GOLD**, Crystals, Single, Mercury diffusion
- DIFFUSION**, Metals, Anisotropic fused silica. See **SILICA**, Fused, Anisotropic, Metals diffusion
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- DIFFUSION**, Nickel, Grain boundaries, Bicrystals, Silver. See **SILVER**, Bicrystals, Grain boundaries, Nickel diffusion
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- DIFFUSION**, Vacancies, Face centred cubic alloys. See **ALLOYS**, Face centred cubic, Vacancies, Diffusion
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- DIFFUSIVITY**, Thermal, Irradiated ceramics, Nuclear reactors. See **NUCLEAR REACTORS**, Ceramics, Irradiated, Thermal diffusivity
- DIFFUSIVITY**, Thermal, Irradiated graphite, Nuclear reactors. See **NUCLEAR REACTORS**, Graphite, Irradiated, Thermal diffusivity
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- DIGESTERS**, Fibrous residues determination, Grass. See **GRASS**, Determination of fibrous residues, Digesters
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- DIGITAL INTEGRATORS**, Spectrometers, Nuclear magnetic resonance. See **NUCLEAR MAGNETIC RESONANCE**, Spectrometers, Integrators, Digital
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- DIGITAL READ-OUT**, Clocks, Aircraft. See **AIRCRAFT**, Clocks, Digital read-out
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- DIGITAL REAL TIME HARMONIC ANALYSIS**. See **HARMONIC ANALYSIS**, Real time, Digital
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- DIHEDRAL ANGLE**, Effect on grain growth, Dispersions, Corundum. See **CORUNDUM**, Dispersions, Grain growth, Effect of dihedral angle
- DIHEDRAL ANGLE**, Effect on grain growth, Dispersions, Lime. See **LIME**, Dispersions, Grain growth, Effect of dihedral angle
- DIHEDRAL ANGLE**, Effect on grain growth, Dispersions, Periclase. See **PERICLASE**, Dispersions, Grain growth, Effect of dihedral angle
- 2- β -DIHYDROXYURS-12-EN-28-OIC ACID**
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- DILATOMETERS**, Cationic initiator studies, Polymerisation. See POLYMERISATION, Initiators, Cationic, Studies, Dilatometers
- DILATOMETERS**, Glass transition studies, Plastics, Film, Electrical insulating materials. See FILM, Plastics, Electrical insulating materials, Glass transition, Studies, Dilatometers
- DILATOMETERS**, Interferometric, Thermal expansion determination, Irradiation. See THERMAL EXPANSION (Irradiation) Determination, Dilatometers, Interferometric
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- DIMENSIONAL CHANGES**
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EXPANSION
SWELLING
- DIMENSIONAL CHANGES**, Structural ceramics. See CERAMICS, Structural, Dimensional changes
- DIMENSIONAL CHANGES**, Thermal, Cadmium. See CADMIUM, Thermal dimensional changes
- 2,5-DIMETHYLBENZOPHENONE**, 2-Methylantracene production. See 2-METHYLANTHRACENE, Production, 2,5-Dimethylbenzophenone
- 2-DIMETHYLBENZYLHYDROPEROXIDE**. See CUMENE HYDROPEROXIDE
- 1,1'-DIMETHYL-4,4'-BIPYRIDILIUM**. See PARAQUAT
- DIMETHYLDIKETONE**. See DIACETYL
- DIMETHYLGLYOXAL**. See DIACETYL
- p-DIMETHYLAMINO BENZYLIDEN ERHODANINE**, Reagents, Precipitation, Geochemical prospecting, Gold. See GOLD, Geochemical prospecting, Precipitation, Reagents, Brilliant green
- β -DIMETHYLAMINOETHYL CHLORIDE**, Reaction with 3-phenylindene. See 3-PHENYLINDENE, Reaction with β -dimethylaminoethyl chloride
- DIMPLED STAINLESS STEEL**, Sheets, Shock absorbers, Cores, Nuclear reactors. See NUCLEAR REACTORS, Cores, Shock absorbers, Sheets, Steel, Stainless, Dimpled
- 2,5-DIMETHYL-PYRAZINE**, Volatile flavour compounds, Chips, Potatoes. See POTATOES, Chips, Flavour compounds, Volatile, 2,5-Dimethyl-pyrazine
- DIMETHYLSULPHOXIDE**, Paper, Solvent extraction, Sodium nitroprusside determination. See SODIUM NITROPRUSSIDE, Determination, Solvent extraction (Paper) Dimethylsulphoxide
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- DIMETHYL SULPHOXIDE-tert-BUTYL ALCOHOL**, Oxidation, Triphenylmethane. See TRIPHENYLMETHANE, Oxidation, (Dimethyl sulphoxide-tert-Butyl alcohol)
- DIMETHYLSULPHOXIDE-FORMIC ACID**, Digestion, Cellulose determination, Flour, Brown bread. See BREAD, Brown, Flour, Determination of cellulose, Digestion, Dimethylsulphoxide-Formic acid
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- DINING HALLS (University buildings) Ceilings, Suspended**
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- DINITROBENZENE**, Reagents, Spectrophotometry, Alkylation agent determination. See ALKYLATION, Agents, Determination, Spectrophotometry, Reagents, Dinitrobenzene
- DINITROGEN TETROXIDE**, Oxygen exchange, Sulphoxides. See SULPHOXIDES, Oxygen exchange, Dinitrogen tetroxide
- DINITROGEN TETROXIDE**, Racemisation, Sulphoxides. See SULPHOXIDES, Racemisation, Dinitrogen tetroxide
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- DIODES**, Gallium arsenide, Lasers, Altimeters. See ALTIMETERS, Lasers, Diodes, Gallium arsenide
- DIODES**, Gallium arsenide, Lasers, Data transmission. See DATA TRANSMISSION, Lasers, Diodes, Gallium arsenide
- DIODES**, Gallium phosphide, Transit-time measurement, Electrons, Photomultipliers. See PHOTOMULTIPLIERS, Electrons, Transit-time, Measurement, Diodes, Gallium phosphide
- DIODES**, Gas, Relays. See RELAYS, Diodes, Gas
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- DIODES**, Parametric, Frequency multipliers. See FREQUENCY, Multipliers, Diodes, Parametric
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DRILLING, Steel frames, Bases, Relays. See RELAYS, Bases, Frames, Steel, Drilling

DRILLING, Ultrasonics, Diamond dies, Drawing, Wires. See WIRES, Drawing, Dies, Diamond, Drilling, Ultrasonics

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DYEING, Elastic polyurethane yarns. See YARNS, Polyurethane, Elastic, Dyeing

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DYEING, Nylon stockings. See STOCKINGS, Nylon, Dyeing

DYEING, Papermaking. See PAPERMAKING, Colouring

DYEING, Polyester fibres. See POLYESTER FIBRES, Dyeing

DYEING, Polynosics. See POLYNOSICS, Dyeing

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DYEING, Warp knit nylon fabrics. See **FABRICS, Nylon, Warp knit, Dyeing**

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DYEING, Yarns. See **YARNS, Dyeing**

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ALIZARIN

ANILINE

AZO COMPOUNDS, Dyes

2,4-DINITROANILINE

FLAVONES

ISOPHYLLOCLADENE

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ELECTRIC POWER SYSTEMS

Related Headings:

POWER DISTRIBUTION

POWER STATIONS

POWER SUBSTATIONS

POWER TRANSMISSION

ELECTRIC POWER SYSTEMS—SUBHEADINGS—Synopsis

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South Scotland

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Guernsey

Sweden

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Saudi Arabia

Mecca

Iraq

India

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Hong Kong

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Structures

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ELECTRIC SHOVELS, Open-cast mining. See MINING, Open-cast, Shovels, Electric

ELECTRIC STRENGTH, Hexane. See HEXANE, Dielectric strength

ELECTRIC STRENGTH, Insulation, Transformers. See TRANSFORMERS, Insulation, Electric strength

ELECTRIC STRENGTH, Plastics. See PLASTICS, Electric strength

ELECTRIC STRENGTH, Polythene. See POLYTHENE, Electric strength

ELECTRIC STRENGTH, Porcelain, Insulators, Electric power systems. See ELECTRIC POWER SYSTEMS, Insulators, Porcelain, Electric strength

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ELECTRICAL CHARGES, Surfaces, Clay. See CLAY, Surfaces, Electrical charges

ELECTRICAL CONDUCTIVITY. See CONDUCTIVITY, Electrical

ELECTRICAL CONDUCTIVITY, Aluminium films. See FILMS, Aluminium, Conductivity

ELECTRICAL CONDUCTIVITY, Caesium seeded helium, Plasmas, Generators, Magnetohydrodynamics. See MAGNETOHYDRODYNAMICS, Generators, Plasmas, Helium (Seeded, Caesium) Conductivity

ELECTRICAL CONDUCTIVITY, Copper. See COPPER, Electrical conductivity

ELECTRICAL CONDUCTIVITY, Crystals, Rutile. See RUTILE, Crystals, Conductivity

ELECTRICAL CONDUCTIVITY, Films, Corrosion, Zirconium alloy, Water cooled nuclear reactors. See NUCLEAR REACTORS, Water cooled, Zirconium alloy, Corrosion, Films, Electrical conductivity

ELECTRICAL CONDUCTIVITY, Fluids, Magnetohydrodynamic generators. See MAGNETOHYDRODYNAMICS, Generators, Fluids, Conductivity, Electrical

ELECTRICAL CONDUCTIVITY, Gas-Dust suspensions, Magnetohydrodynamic generators. See MAGNETOHYDRODYNAMICS, Generators, Gas-Dust suspensions, Conductivity, Electrical

ELECTRICAL CONDUCTIVITY, Glass. See GLASS, Electrical conductivity

ELECTRICAL CONDUCTIVITY, Hexane. See HEXANE, Conductivity, Electrical

ELECTRICAL CONDUCTIVITY, Hot carrier, Germanium, Semiconductors. See SEMICONDUCTORS, Germanium, Hot carrier conduction

ELECTRICAL CONDUCTIVITY, Oil, Transformers. See TRANSFORMERS, Oil, Conductivity

ELECTRICAL CONDUCTIVITY, Oxide films, Zirconium anodes. See ANODES, Zirconium, Oxide films, Electrical conductivity

ELECTRICAL CONDUCTIVITY, Protonic, Single crystals. See CRYSTALS, Single, Electrical conductivity, Protonic

ELECTRICAL CONDUCTIVITY, Single crystals, Alumina. See ALUMINA, Crystals, Single, Conductivity, Electrical

ELECTRICAL CONDUCTIVITY, Single crystals, Cadmium sulphide films. See FILMS, Cadmium sulphide, Crystals, Single, Conductivity

ELECTRICAL CONDUCTIVITY, Single crystals, Calcium fluoride. See CALCIUM FLUORIDE, Crystals, Single, Conductivity

ELECTRICAL CONDUCTIVITY, Single crystals, Strontium titanate. See STRONTIUM TITANATE, Crystals, Single, Electrical conductivity

ELECTRICAL CONDUCTIVITY, Transformer oil. See TRANSFORMERS, Oil, Conductivity

ELECTRICAL CONNECTIONS, High pressure equipment, Cryogenics. See CRYOGENICS, High pressure, Equipment, Electrical connections

ELECTRICAL DISCHARGE

Related Headings:

ARCS
CORONA
GAS DISCHARGE
GLOW DISCHARGE
SPARK DISCHARGE

ELECTRICAL DISCHARGE, Ageing determination, Insulating oils. See INSULATING OILS, Ageing, Determination, Electrical discharge

ELECTRICAL DISCHARGE, Insulation. See INSULATION, Electrical, Discharge

ELECTRICAL DISCHARGE, Oxidation, Sulphur dioxide. See SULPHUR DIOXIDE, Oxidation, Electrical discharge

ELECTRICAL DISTORTION. See DISTORTION, Electrical

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A.C.
CAPACITANCE
CIRCUITS, Electric
COMMUNICATIONS, Engineering
CONDUCTANCE
CURRENT
D.C.
EARTHING
EDDY CURRENT
ELECTRIC
ELECTRICAL EQUIPMENT
ELECTRICAL INSTALLATIONS
ELECTRICAL MACHINERY
ELECTRICAL MEASUREMENT
ELECTROMAGNETIC
ELECTROMAGNETISM
ELECTRONICS
IMPEDANCE
INDUCTANCE

ELECTRICAL ENGINEERING*Related Headings—cont.*

NETWORKS, Electrical
 PHASE ANGLE
 PIEZOELECTRICITY
 POTENTIAL
 POWER FACTOR
 POWER PLANT
 POWER SUPPLIES
 RESISTANCE
 RESISTIVITY
 SPARK GAPS
 SWITCHING
 THERMOELECTRIC EFFECT
 THERMOELECTRICITY
 TRANSMISSION LINES
 VACUUM, Gaps
 VOLTAGE

ELECTRICAL ENGINEERING—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Particular countries

Great Britain

Profession

*Consultants**Technicians*

Education

*Teaching aids**Graduates*

Research

Standardisation

Technical activities

*Critical path analysis**Design**Drawing*

Materials

*Components**Computers***ELECTRICAL ENGINEERING, Components***Related Headings:*

BATTERIES
 BUSBARS
 CAPACITORS
 CELLS, Leclanché
 CHOPPERS
 CONDUCTORS, Electrical
 CONTACTS, Electrical
 CONVERTERS
 ELECTRODES
 ELECTROMAGNETS
 FUSES
 INDUCTORS
 INSULATING MATERIALS; Electrical
 INSULATORS
 INVERTERS
 MAGNETS
 PLUGS, Electrical
 POTENTIOMETERS
 RECTIFIERS
 RESISTORS
 RESONATORS
 SOCKETS, Electrical
 SWITCHES
 SWITCHGEAR
 TRANSFORMERS

ELECTRICAL ENGINEERING, Components*Related Headings—cont.*

TRANSISTORS, Power

WIRES, Insulated

ELECTRICAL ENGINEERING, Computers

Design and control revolution: chairman's address:

Science and General Division. M. W. H. Davies. *Proc. of Instn. of Electrical Engrs.*, 112 (Jan 65) p.127-36. il.Design and control revolution (excerpts) M. W. H. Davies. *Design Electronics*, 2 (Feb 65) p.10-11**ELECTRICAL ENGINEERING, Consultants, British, Overseas**Electrical consultants abroad. *Electrical Times*, 147 (22 Apr 65) p.604**ELECTRICAL ENGINEERING, Critical path analysis**Critical path analysis: electrical engineering applications surveyed by I.E.E. *Electrical Times*, 147 (1 Apr 65) p.487-8**ELECTRICAL ENGINEERING, Design**Design equations in electrical engineering. W. J. Bonwick. *International J. of Electrical Engng. Education*, 2 (Mar 65) p.643-54. il.**ELECTRICAL ENGINEERING, Drawing, Teaching**Engineering drawing and the electrical fitter. H. Loukes. *Technical Education*, 7 (Apr 65) p.176-7. il.**ELECTRICAL ENGINEERING, Education**

Design and control revolution: chairman's address:

Science and General Division. M. W. H. Davies. *Proc. of Instn. of Electrical Engrs.*, 112 (Jan 65) p.127-36. il.Improving the training of electricians. H. A. Miller. *Electrical Rev.*, 177 (8 Oct 65) p.537-8Opening of Merz Court: modern facilities for teaching electrical engineering. R. L. Russell. *Electrical Rev.*, 176 (14 May 65) p.749-51. il.**ELECTRICAL ENGINEERING, Education, Demonstration Equipment**Demonstrations for electrical technician and craft courses [Workington College of Further Education] C. H. Millward. *Electrical Rev.*, 177 (3 Dec 65) p.832-4. il.**ELECTRICAL ENGINEERING, Education, Universities**Strathclyde university: Electrical Engineering Department. *Scottish Electrical Engr.*, 36 (Dec 65) p.691+. il.**ELECTRICAL ENGINEERING, Graduates, Training**Graduate training in the CEBG: operational experience at Hams Hall. *Electrical Rev.*, 177 (3 Sep 65) p.347-9. il.**ELECTRICAL ENGINEERING, Great Britain**Some thoughts on the British electrical industry (summary) L. Drucquer. *Electronics & Power*, 11 (Nov 65) p.380-2. il.**ELECTRICAL ENGINEERING, Materials**New high strength materials: applications in electrical engineering. J. A. Champion. *Electrical Rev.*, 177 (13 Aug 65) p.236-9. il. refs.New materials in engineering. Sir Willis Jackson. *J. of R. Soc. of Arts*, 113 (Sep 65) p.758-81. il.**ELECTRICAL ENGINEERING, Materials***Related Headings:*

EPOXY RESINS, Electrical engineering

INSULATING MATERIALS, Electrical

INSULATING OILS

PLASTICS, Heat shrinkable, Electrical engineering materials

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Electrical Research Association. J. Greig. *Nature*, 207 (25 Sep 65) p.1340-1

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ELECTRICAL EQUIPMENT, Astronautics vehicles. See ASTRONAUTICS, Vehicles, Electrical equipment**ELECTRICAL EQUIPMENT, Building. See BUILDING, Equipment, Electrical****ELECTRICAL EQUIPMENT, Cold reduction, Steel, Strips, Tubes. See TUBES, Strips, Steel, Cold reduction, Electrical equipment****ELECTRICAL EQUIPMENT, Commercial vehicles. See VEHICLES, Commercial, Electrical equipment****ELECTRICAL EQUIPMENT, Connectors, Inspection, Multi-gauges**

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Electrical equipment in explosive atmospheres. *Electrical Times*, 148 (16 Dec 65) p.922. il.

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ELECTRICAL GENERATORS. See GENERATORS, Electrical

ELECTRICAL HORTICULTURAL EQUIPMENT. See HORTICULTURAL EQUIPMENT, Electrical

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A.C., Machines

BRUSHES, Carbon

D.C., Machines

ELECTRIC MOTORS

GENERATORS, Electrical

SYNCHROS

WARD-LEONARD SETS

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Related Headings:

AIR GAPS

BOLOMETERS

BRIDGES, Electrical

D.C., Measurement, Instruments

ELECTRIC METERS

WAVEFORMS, Analysers

ELECTRICAL METHODS, Bursting, Diaphragms, Shock tubes.

See SHOCK TUBES, Diaphragms, Bursting, Electrical methods

ELECTRICAL METHODS, Finishing, Metals. See METALS,

Finishing, Electrical methods

ELECTRICAL NAVAL ENGINEERING. See NAVAL

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HEADPHONES

HEARING AIDS

LOUDSPEAKERS

MICROPHONES

PUBLIC ADDRESS SYSTEMS

SOUND, Recording

SOUND, Reproduction

SOUND FILMS

TRANSDUCERS, Electroacoustics

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thene. See POLYTHENE, Electric strength, Electrochemical breakdown

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ELECTROCHEMISTRY

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BRIGHTENING, Anodic

ELECTROCHEMISTRY

Related Headings—cont.

CELLS, Voltaic

ELECTROLYSIS

ELECTROLYTES

ELECTRON EXCHANGE

ELECTRO-OSMOSIS

ELECTROPHORESIS

FUEL CELLS

ION EXCHANGE

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BERYLLIUM, Dissolution (Acids) Electrochemistry

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ELECTRODEPOSITED SINGLE CRYSTALS, Cobalt, Films.

See FILMS, Cobalt, Crystals, Single, Electrodeposited

ELECTRODEPOSITION, Bismuth, Borax—Molten chloride

salts solutions, Precious metal cathodes. See CATHODES, Precious metals, Borax—Molten chloride

salts solutions, Bismuth electrodeposition

ELECTRODEPOSITION, Flowing copper sulphate solutions,

Copper, Cathodes. See CATHODES, Copper, Copper sulphate solutions, Flowing, Electrodeposition

ELECTRODEPOSITION, Gold films. See FILMS, Gold,

Electrodeposition

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ELECTRODES

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ELECTRODES, Arc welding. See WELDING, Arc, Electrodes

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ELECTRODES, Potential, Corrosion. See CORROSION, Electrode potential**ELECTRODES, Powders, Nickel, Barium titanate capacitors. See CAPACITORS, Barium titanate, Electrodes, Powders, Nickel**

ELECTRODES, Reference, Potential, Stabilisers. See POTENTIOSTATS

ELECTRODES, Rotating disc, Diffusion studies, Hydrochloric acid-Ethyl alcohol solutions, Corrosion, Nickel. See NICKEL, Corrosion, Hydrochloric acid-Ethyl alcohol solutions, Diffusion, Studies, Electrodes, Rotating disc

ELECTRODES, Rotating disc, Diffusion studies, Sulphuric acid-Ethyl alcohol solutions, Corrosion, Nickel. See NICKEL, Corrosion, Sulphuric acid-Ethyl alcohol solutions, Diffusion, Studies, Electrodes, Rotating disc

ELECTRODES, Silver, Potentiometric titrations, Chlorinated pesticide residues determination. See PESTICIDES, Chlorinated, Residues, Determination, Potentiometric titrations, Electrodes, Silver

ELECTRODES, Stainless steel, Arc welding. See WELDING, Arc, Electrodes, Steel, Stainless

ELECTRODIALYSIS, Lithium ions, Molten lithium nitrate-potassium nitrate. See LITHIUM NITRATE-POTASSIUM NITRATE, Molten, Lithium ions, Electrodialysis

ELECTRODIALYSIS, Membranes, Barium sulphate-Cellophane, Current-Voltage curves

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ELECTRODIALYSIS, Water removal, Potassium hydroxide electrolyte, Hydrogen-Oxygen fuel cells. See FUEL CELLS, Hydrogen-Oxygen, Potassium hydroxide electrolyte, Water, Removal, Electrodialysis

ELECTROENDOSMOSIS. See ELECTRO-OSMOSIS

ELECTROFORMING

Related Headings:

GRINDING, Electrolytic

ELECTROFORMING, Chromium. See CHROMIUM, Electroforming

ELECTROFORMING, Copper. See COPPER, Electroforming

ELECTROFORMING, Copper mountings, Silica windows, Shock tubes. See SHOCK TUBES, Windows, Silica, Mountings, Copper, Electroforming

ELECTROFORMING, Electronics components. See ELECTRONICS, Components, Electroforming

ELECTROFORMING, Metals. See METALS, Electroforming

ELECTROFORMING, Nickel, Foil, Reflectors, Power supplies, Astronautics vehicles. See ASTRONAUTICS, Vehicles, Power supplies, Reflectors, Foil, Nickel, Electroforming

ELECTROFORMING, Nickel, Mesh. See MESH, Nickel, Electroforming

ELECTROFORMING, Stainless steel, Blades, Turbines. See TURBINES, Blades, Steel, Stainless, Electroforming

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ELECTRO-HYDRAULIC DRILLS, Rock. See ROCK, Drills, Electro-hydraulic

ELECTRO-HYDRAULIC FORMING, Metals. See METALS, Forming, Electrohydraulic

ELECTRO-HYDRAULIC FORMING, Metals, Sheets. See SHEETS, Metals, Forming, Electro-hydraulic

ELECTRO-HYDRAULIC FORMING, Tubes, Aircraft. See AIRCRAFT, Tubes, Forming, Electro-hydraulic

ELECTRO-HYDRAULIC GOVERNORS, Steam turbines, Turbo-alternators. See TURBO-ALTERNATORS, Steam turbines, Governors, Electro-hydraulic

ELECTRO-HYDRAULIC SERVO VALVES. See SERVO VALVES, Electro-hydraulic

ELECTRO-HYDRAULIC STEERING SYSTEMS, Ships. See SHIPS, Steering systems, Electro-hydraulic

ELECTRO-HYDRAULIC STEERING SYSTEMS, Tankers, Ships. See TANKERS, Ships, Steering systems, Electro-hydraulic

ELECTROLUMINESCENCE

Related Headings:

LAMPS, Gallium phosphide

PHOSPHORS

ELECTROLUMINESCENCE, Panels

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ELECTROLUMINESCENCE, Semiconductors, Silicon carbide. See SILICON CARBIDE, Semiconductors, Electroluminescence

ELECTROLUMINESCENCE, Single crystals, Zinc sulphide. See ZINC SULPHIDE, Crystals, Single, Electroluminescence

ELECTROLUMINESCENCE, Vacuum deposited zinc selenide, Films. See FILMS, Zinc selenide, Vacuum deposited, Electroluminescence

ELECTROLUMINESCENCE, Vacuum deposited zinc sulphide, Films. See FILMS, Zinc sulphide, Vacuum deposited, Electroluminescence

ELECTROLYSIS

Related Headings:

ALKALI CARBONATES, Molten, Electrolytes

ALKALINE EARTH CHLORIDES, Electrolytes

ANODES, Aluminium-Zinc, Alkaline solutions

ANODES, Cadmium-Cadmium hydroxide, Porous,

Potassium hydroxide solutions

ANODES, Copper, Acid solutions

ANODES, Copper sulphate solutions

ANODES, Germanium, Dissolution

ANODES, Gold, Black, Sulphuric acid solutions

ANODES, Gold, Caustic soda solutions

ANODES, Gold, Sulphuric acid solutions

ANODES, Gold-Platinum, Hydrochloric acid solutions

ANODES, Graphite, Impregnated, Alkali chloride solutions

ANODES, Graphite, Sodium chloride solutions

ANODES, Metals, Aqueous solutions

ANODES, Metals, Rotating discs, Acid solutions

ANODES, Nickel, Nickel sulphate solutions

ANODES, Nickel, Polishing, Sulphuric acid solutions

ANODES, Niobium, Phosphoric acid solutions

ANODES, Platinum, Molten fluorides

ANODES, Platinum, Molten silver nitrate electrolytes

ANODES, Platinum, Molten sodium nitrate solutions

ANODES, Platinum, Sulphuric acid solutions

ANODES, Rhodium, Hydrochloric acid solutions

ANODES, Semiconductors, Electrolysis

ANODES, Tantalum, Phosphoric acid solutions

ANODES, Tantalum, Sulphuric acid solutions

ANODES, Titanium, Formic acid solutions

CATHODES, Aluminium, Quaternary ammonium salts solutions

CATHODES, Antimony-Bismuth, Polarisation

CATHODES, Copper, Copper sulphate solutions

CATHODES, Copper, Rotating disc, Copper sulphate solutions

CATHODES, Germanium, Potassium hydroxide solutions

ELECTROLYSIS

Related Headings—cont.

- CATHODES, Gold, Cobalt chloride–Zinc chloride solutions
- CATHODES, Gold–Platinum, Hydrochloric acid solutions
- CATHODES, Graphite, Molten potassium bisulphate
- CATHODES, Manganese dioxide, Potassium hydroxide solutions
- CATHODES, Mercury, Aluminium chloride–Pyridine solutions
- CATHODES, Metals, Chromic acid solutions
- CATHODES, Nickel, Ferricyanide solutions
- CATHODES, Platinum, Black, Molten potassium bisulphate, Hydrogen evolution
- CATHODES, Platinum, Hydrochloric acid–Thallium solutions
- CATHODES, Platinum, Molten fluorides
- CATHODES, Platinum, Molten potassium bisulphate
- CATHODES, Platinum, Rotating disc, Molten lithium nitrate–Potassium nitrate–Sodium nitrate
- CATHODES, Platinum, Single crystal, Spherical, Nitric acid solutions
- CATHODES, Platinum, Sulphuric acid solutions
- CATHODES, Precious metals, Borax–Molten chloride solutions
- CATHODES, Steel, Stainless, Cobalt sulphate–Zinc sulphate solutions
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- ELECTRODES, Gallium, Aqueous solutions
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- ELECTRODES, Mercury, Potassium halides solutions
- ELECTRODES, Mercury, Sulphuric acid solutions
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- ELECTRON MICROSCOPY, Metals, Powders.** See POWDERS, Metals, Microscopy, Electron
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ELECTROPHORESIS, Painting. See PAINTING, Electrophoresis

ELECTROPHORESIS, Painting, Bodies, Motor cars. See MOTOR CARS, Bodies, Painting, Electrophoresis

ELECTROPHORESIS, Painting, Electric cookers. See COOKERS, Electric, Painting, Electrophoresis

ELECTROPHORESIS, Painting, Electric heating equipment, Buildings. See BUILDINGS, Heating, Electric, Equipment, Painting, Electrophoresis

ELECTROPHORESIS, Painting, Metals. See METALS, Painting, Electrophoresis

ELECTROPHORESIS, Painting, Tanks, Fuels, Engines, Motor vehicles. See MOTOR VEHICLES, Engines, Fuels, Tanks, Painting, Electrophoresis

ELECTROPHORESIS, Painting, Washing machine components. See WASHING MACHINES, Components, Painting, Electrophoresis

ELECTROPHORESIS, Priming, Paint, Steel, Furniture. See FURNITURE, Steel, Paint, Priming, Electrophoresis

ELECTROPHORESIS, Vitreous enamelling. See ENAMELLING, Vitreous, Electrophoresis

ELECTROPHORESIS DISCHARGE, Gas discharge electron tubes. See ELECTRON TUBES, Gas discharge, Electrophoresis discharge

ELECTROPHOTOGRAPHY

Related Headings:

XEROGRAPHY

ELECTROPHYSIOLOGY

Related Headings:

BIOELECTRIC POTENTIALS

ELECTROPHYSIOLOGY, Signals, Detectors, Switching circuits

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ELECTROPLATING

Related Headings:

BARREL PLATING

ELECTRODEPOSITION

ELECTROPLATING—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

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U.S.A.

Technical activities & problems

Current density—Rate relationship

Design

Work sampling

Drying

Effluents

Materials

Solutions

Plant

Control systems

Transfer machines

Current stabilisers

Deposit of particular metals

Composite materials

Alloys

Cadmium

Chromium

Copper

Nickel

Nickel—Chromium

Nickel—Zinc

Precious metals

Gold

Platinum metals

Silver

Zinc

ELECTROPLATING, Acrylonitrile—Butadiene—Styrene. See ACRYLONITRILE—BUTADIENE—STYRENE, Electroplating

ELECTROPLATING, Aircraft components. See AIRCRAFT, Components, Electroplating

ELECTROPLATING, Aircraft engine components. See AIRCRAFT, Engines, Components, Electroplating

ELECTROPLATING, Alloys

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ELECTROPLATING, Aluminium. See ALUMINIUM, Electroplating

ELECTROPLATING, Bumpers, Motor cars. See MOTOR CARS, Bumpers, Electroplating

ELECTROPLATING, Cadmium

Conserving cadmium. *Electroplating & Metal Finishing*, 18 (Aug 65) p.284-6

ELECTROPLATING, Chromium

Industrial chromium plating. *Chemical Processing*, 11 (Aug 65) p.52-4. il.

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Bright chromium plating baths based on tetrachromate.

C. W. Roggenдорff. *Electroplating & Metal Finishing*, 18 (Apr 65) p.115-17

ELECTROPLATING, Composite materials

Electrodeposition of composite materials, pt.1. P. W.

Martin. *Metal Finishing J.*, 11 (Oct 65) p.399-403. il. refs.

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W. Canning & Co. Ltd.: automatic plating plant in the sixties. S. H. Grindrod. *Industrial Finishing*, 17 (Oct 65) p.36-9. il.

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Heavy electrodeposition for the engineer, pt.1: copper plating. J. D. Greenwood. *Metal Finishing J.*, 11 (Jun 65) p.227-34. il.

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Some developments in plating current control equipment.

P. J. H. Gunton. *Metal Finishing J.*, 11 (Mar 65) p.96-8. il.

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Drying electroplated articles. S. H. Grindrod. *Electroplating & Metal Finishing*, 18 (Dec 65) p.418+. il.

ELECTROPLATING, Effluents, Bye-laws

Review of local authority bye-laws on finishing trade effluents, pt.1. Lord Meston. *Product Finishing*, 18 (May 65) p.79-86

ELECTROPLATING, Effluents, Cheshire Bye-laws

Review of local authority bye-laws on finishing trade effluents, pt.3: County of Cheshire. Lord Meston. *Product Finishing*, 18 (Jul 65) p.73-5

ELECTROPLATING, Effluents, Cyanide, Reduction, Electrolysis

Continuous electrolytic destruction of cyanide wastes.

J. Drogon & L. Pasek. *Electroplating & Metal Finishing*, 18 (Sep 65) p.310-13. il. refs.

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Review of local authority bye-laws on finishing trade effluents, pt.2 [Stafford Borough Council, County of Norfolk & County of Devonshire] Lord Meston. *Product Finishing*, 18 (Jun 65) p.43+. il.

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ELECTROPLATING, Electronic components. See ELECTRONICS, Components, Electroplating**ELECTROPLATING, Electrical contacts. See CONTACTS, Electrical, Electroplating****ELECTROPLATING, Electronic engineering, Plastics. See PLASTICS, Electronic engineering, Electroplating****ELECTROPLATING, Gold**

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See SHIPS, Diesel engines, Pistons, Grooves, Electroplating

ELECTROPLATING, Inductors, Circuits, Logical elements, Computers. See COMPUTERS, Logical elements, Circuits, Inductors, Electroplating**ELECTROPLATING, Jewellery. See JEWELLERY, Electroplating****ELECTROPLATING, Metals, Strips. See STRIPS, Metal, Electroplating****ELECTROPLATING, Metal tableware. See TABLEWARE, Metal, Electroplating****ELECTROPLATING, Motor vehicle parts. See MOTOR VEHICLES, Parts, Electroplating****ELECTROPLATING, Nickel**

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Plating with the platinum group metals. J. Wilkinson.

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ELECTROPLATING, Refractory metals. See **METALS**, *Refractory, Electroplating*

ELECTROPLATING, Repair, Cylinders, Drying, Papermaking.

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ELECTROPLATING, Repair, Fretting, Bearings, Electrical

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ELECTROPLATING, Silver, Brighteners

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ELECTROPLATING, Uranium. See **URANIUM**, *Electroplating*

ELECTROPLATING, Uranium 238, Fuels, Nuclear reactors.

See **NUCLEAR REACTORS**, *Fuels, Uranium 238, Electroplating*

ELECTROPLATING, Wires. See **WIRES**, *Electroplating*

ELECTROPLATING, Work sampling

Multifactor wage payment system of plating shop remuneration based on work sampling. Th. Lith & L. Kamphuis.

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ELECTROPLATING, Zinc, Brighteners, Sulphur compounds

Role of chemical surface transformations in metal electrocrystallization. K. M. Gorbunova & A. A. Sutiagina.

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See **SHIPS**, *Diesel engines, Control, Electro-pneumatic*
ELECTRO-PNEUMATIC EJECTION SYSTEMS, Power presses. See **PRESSES**, *Power, Ejection systems, Electro-pneumatic*

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- Electrostatic precipitators. Machinery Lloyd (Overseas ed.) 37 (27 Feb 65) p.37-40. il.
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- ELECTROSTATIC PRINTING**. See **PRINTING**, Electrostatic
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- ELECTROSTATIC SPRAYING**, Paint, Fences, Parks. See **PARKS**, Fences, Paint, Spraying, Electrostatic
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- ELECTROSTATIC SPRAYING**, Paint, Refrigerators. See **REFRIGERATORS**, Painting, Spraying, Electrostatic
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- ELECTROSTATIC SPRAYING**, Plastics powder coatings. See **COATINGS**, Powders, Plastics, Spraying, Electrostatic
- ELECTROSTATIC SPRAYING**, Powders, Coatings. See **COATINGS**, Powders, Spraying, Electrostatic
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- ELEMENT ANALYSIS**, Time study. See **TIME STUDY**, Element analysis
- ELEMENTHUS SYSTEM**, Prefabricated buildings. See **BUILDINGS**, Prefabricated, Elementhus system
- ELEPHANT AND CASTLE**
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SHOPPING CENTRES, Southwark, Elephant & Castle
- ELEPHANT HOUSES**
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- ELEVATED RAILWAYS**. See **RAILWAYS**, Elevated
- ELEVATED ROADS**. See **ROADS**, Elevated
- ELEVATED TEMPERATURES**. See **HIGH TEMPERATURE**
- ELEVATORS**, Grain. See **GRAIN**, Elevators
- ELIMINATORS**, Static, Presswork. See **PRESSWORK**, Static eliminators
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- ELUTRIATION**, Classifiers, Sand. See **SAND**, Classifiers, Elutriation
- EMBANKMENTS**, Earthquake resistant
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ENAMELLING, Vitreous, Cookers. See COOKERS, Enamelling, Vitreous

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Electrophoretic deposition of vitreous enamel (summary)

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ASTRONAUTICS

CONTROL SYSTEMS

DRAINAGE

MINING

RAILWAYS

ROADS

SHIPBUILDING

SYSTEMS, Engineering

TOLERANCES

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ENGINEERING, Aeronautical. See AIRCRAFT**ENGINEERING, Apprenticeships**How a small firm copes with engineering training [J. P. Udal Ltd.] *Metalworking Production*, 109 (13 Oct 65) p.85. il.

Shorter engineering apprenticeship [Baker Perkins, Ltd.]

J. A. W. Deboo. *Machine Shop*, 26 (Apr 65) p.132-5. il.**ENGINEERING, Apprenticeships, Programmed teaching**

Programmed instruction and apprentice training [Baker

Perkins] B. Dodd. *Machine Shop*, 26 (Jun 65) p.214-17. il.**ENGINEERING, Chemical.** See CHEMICAL ENGINEERING**ENGINEERING, Civil.** See CIVIL ENGINEERING**ENGINEERING, Coal mining.** See COAL, Mining, Engineering**ENGINEERING, Computers**Prompt decisions speed computer installation. *Metalworking Production*, 109 (9 Jun 65) p.62-3. il.**ENGINEERING, Design**Achievement of design reliability. C. T. Comey. *Engng. Designer* (Mar 65) p.1-10. il.Controlled evolution of engineering design. E. Matchett. *Engng. Designer* (Feb 65) p.1-9. il.Design in engineering. W. H. Mayall. *Design* (Oct 65) p.28-33Economic design: some of the more costly design habits and faults and ways of avoiding them. G. Mackay. *Engng.*Economy, mechanics and design. H. J. Bernhard. *Instn. of Mechanical Engrs. Proc.*, 178 pt.3J (1963/64) p.22-35 il. refs.How a designer goes about it (extracts) A. Moulton. *Engineer*, 219 (28 May 65) p.940

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FABRICS, Engineering materials
FLUOROCARBONS, Resins, Engineering
NYLON, Engineering materials
NYLON-GLASS FIBRE, Engineering materials
P.T.F.E., Engineering materials
P.V.C., Engineering materials
PHENOLIC RESINS, Engineering
PHENOLIC RESINS, Reinforced, Engineering
PLASTICS, Engineering
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POLYPHENYLENE OXIDE, Engineering materials
POLYPROPYLENE, Engineering materials
POLYSTYRENE, Engineering materials
POLYSULPHONES, Engineering materials
PRECIOUS METALS, Engineering
RHENIUM, Engineering materials
RUBBER, Engineering
STRENGTH OF MATERIALS

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Related Headings:

COMBUSTION CHAMBERS

ENGINES—SUBHEADINGS—Synopsis

*This synopsis shows, in italic, related subheadings which
are separated in the alphabetical sequence following.*

*Technical data**Processes*

Manufactures

Heat recovery

Components

Crankshafts

Types

Atmospheric

Internal combustion

Hypergolic

Rotary

By fuel

Multi-fuel

Applications

Electrical generation

Alternators

Rockets

Vehicles

Aircraft

Ships

Fishing vessels

Motor boats

Motor vehicles

ENGINES—SUBHEADINGS—Synopsis—cont.

Vehicles—cont.

Motor cars
Buses
Motor coaches
Vans
Motor cycles
Scooters
Agricultural vehicles

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- EQUIVALENT CIRCUITS, Semiconductor diodes. See DIODES, Semiconductors, Equivalent circuits
- EQUIVALENT CIRCUITS, Thermionic tubes. See ELECTRON TUBES, Thermionic, Equivalent circuits
- EQUIVALENT QUANTUM EFFICIENCY, Emulsions, Air photography. See PHOTOGRAPHY, Air, Emulsions, Equivalent quantum efficiency
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- CLOCKS, Dials, Reading, Ergonomics
- CLOCKS, Digital, Reading, Ergonomics
- COMBAT DUTIES, Energy output
- DISPLAYS, Films, Coincidence judgments
- ELECTROPHYSIOLOGY
- ENGINEERING, Drawings, Comprehension
- GAMES, Theory, Solutions, Computers, Modification (Man) Performance
- HEAT, Ergonomics
- HEAT, Tolerance, Ergonomics
- INSTRUMENTS, Dials, Size, Ergonomics
- INSTRUMENTS, Reading, Ergonomics
- LATHES, Capstan, Ergonomics
- LIGHTING, Ergonomics
- MILK, Jugs, Ergonomics
- MOTOR CARS, Design, Ergonomics
- MOTOR CARS, Seats, Polyurethane, Expanded, Ergonomics
- POSITIONING, Manual
- POSTAL SORTING, Letters, Mechanisation, Ergonomics
- PUNCHED CARDS, Punching, Equipment, Ergonomics
- SENSORY-MOTOR PERFORMANCE
- SHIPS, Navigation, Radar, Displays, Ergonomics
- SITTING, Postures, Ergonomics
- SPEECH, Disturbances, Delayed auditory feedback
- STATIONERY, Punching, Machines, Safety, Ergonomics
- TARGETS, Tracking, Levers, Ergonomics
- TRACKING, Pursuit
- VIGILANCE
- WALKING, Energy expenditure
- WELDING, Arc, Ergonomics
- WELDING, Arc, Gas shielded, Tracking, Ergonomics
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- EROSION, Helicopter components. See HELICOPTERS, Components, Erosion
- EROSION, Inclusions, Cathodes, Vacuum gaps. See VACUUM, Gaps, Cathodes, Inclusions, Erosion
- EROSION, Polluted electrical insulating materials, Plastics. See PLASTICS, Electrical insulating materials, Polluted, Erosion
- ERROR CORRECTION, Frequency shift keying, H.F. radio, Data transmission, Aircraft. See AIRCRAFT, Data transmission, Radio, H.F., Frequency shift keying, Error correction
- ERROR CORRECTION, Radio links, Telex. See TELEX, Radio links, Error correcting
- ERROR CORRECTION, Telex, Data transmission. See DATA TRANSMISSION, Telex, Error correction
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- ANGELICA ARCHANGELICA, Essential oils
- ARAUCHARIA, Essential oils
- BELLARY LEAF OILS
- BURSERIA DELPECHIANA, Extractives
- CITRONELLA OILS
- CLOVES, Essential oils
- DAVANA, Essential oils
- GERANIUM OILS
- HINOKI LEAF OIL
- JASMINE, Essential oils
- LOCHNERA ROSEA, Essential oils
- LONICERA PERICLYMEN, Extractives
- MENTHA ARVENSIS, Essential oils
- MOSLA OCYMOIDES, Essential oils
- MUSK, Essential oils

ESSENTIAL OILS

Related Headings—cont.

NEPETA CILIARIS, Essential oils
OCIMUM KILIMANDSCHARICUM, Oils
PALMAROSA OIL
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COAL, Industry, Europe

COAL, Mining, Machines, Europe

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GAS, Natural, Pipelines, Eastern Europe

GAS, Natural, Prospecting, Europe

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ROADS, Haulage, Europe

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RAILWAYS, Stations, London, Euston

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EUTECTIC ALLOYS, Iron—Carbon. See IRON—CARBON, Eutectic alloys

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EVAPORATION

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EVAPORATORS

EVAPORATION, Barriers

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EVAPORATION, Dyeing, Cellulosic fabrics. See FABRICS, CELLULOSIC, Dyeing, Evaporation

EVAPORATION, Field ion microscopy. See MICROSCOPY, Field ion, Evaporation

EVAPORATION, Films, Microminiature circuits. See

CIRCUITS, Electronics, Microminiature, Films, Vacuum deposition

EVAPORATION, Heavy water. See WATER, Heavy, Evaporation

EVAPORATION, Lead iodide, Underlayers, Cleaning, Vacuum deposition equipment. See VACUUM DEPOSITION, Equipment, Cleaning, Underlayers, Lead iodide, Evaporation

EVAPORATION, Methyl alcohol. See METHYL ALCOHOL, Evaporation

EVAPORATION, Rate, Thorium, Thoriated tungsten cathodes, Thermionic tubes. See ELECTRON TUBES, Thermionic, Cathodes, Tungsten, Thoriated, Thorium, Evaporation, Rate

EVAPORATION, Reservoirs. See RESERVOIRS, Evaporation

EVAPORATION, Vacuum. See VACUUM DEPOSITION

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EVAPORATORS, Sugar. See SUGAR, Evaporators

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EXAMINATIONS, Industrial design education. See INDUSTRIAL DESIGN, Education, Examinations

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EXCAVATION, Clay, Foundations, Nuclear power stations.

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Bucket wheel excavators. *Mining & Minerals Engrg.*, 1 (Oct 65) p.556-8. il.

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EXCHANGES, Trunk calls, Telephony. See TELEPHONY, Trunk calls, Exchanges

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EXCITERS, Electrostatic, Resonant frequency determination, High temperature Young's modulus, Rods. See RODS, Young's modulus (High temperature) Determination, Resonant frequency, Electrostatic exciters

EXCITERS, Transmitters, Single sideband, Radio. See RADIO, Single sideband, Transmitters, Exciters

EXECUTIVE PROGRAMS, Computers. See COMPUTERS, Programs, Executive

EXHAUST, Diesel engines. See DIESEL ENGINES, Exhaust

EXHAUST, Diesel engines, Air pollution. See AIR POLLUTION, Diesel engines, Exhaust

EXHAUST, Diesel engines, Motor vehicles. See MOTOR VEHICLES, Diesel engines, Exhaust

EXHAUST, Diesel engines, Motor vehicles, Air pollution. See AIR POLLUTION, Motor vehicles, Diesel engines, Exhaust

EXHAUST, Diesel locomotives. See LOCOMOTIVES, Diesel, Exhaust

EXHAUST, Gas turbines. See GAS TURBINES, Exhaust

EXHAUST, Internal combustion engines. See ENGINES (Internal combustion) Exhaust

EXHAUST, Motor cars. See MOTOR CARS, Exhaust

EXHAUST, Motor vehicles. See MOTOR VEHICLES, Exhaust

EXHAUST, Motor vehicles, Air pollution. See AIR POLLUTION, Motor vehicles, Exhaust

EXHAUST, Multifuel engines. See ENGINES, Multifuel, Exhaust

EXHAUST PIPES (Diesel engines) Filters, Gauze, Flow, Unsteady

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EXHAUST SYSTEMS, Turbojets, Supersonic aircraft. See

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EXHIBITION BUILDINGS

Related Headings:

BUILDING, Exhibitions, Buildings

INDUSTRIAL DESIGN, Exhibitions, Buildings

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BAU 64: stained glass pavilion. *Glass Age*, 8 (May 65) p.32-3. il.

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Swiss National Exhibition, Lausanne 1964; pavilions in the sector "The Art of living: live happily and sensibly".

Wood, 30 (Dec 65) p.40-4

EXHIBITIONS, Lighting

At the New York World's Fair. *Light & Lighting*, 57 (Dec 64) p.382-6. il.

EXHIBITIONS, Stands

Exhibition stand for 'The Builder' newspaper. *J. Rae. Builder*, 209 (19 Nov 65) p.1101-2. il.

1965 Olympia pilgrimage. G. G. Baines. *Builder*, 209 (3 Dec 65) p.1241-4. il.

EXHIBITIONS, Stands, Projectors

Exhibition stand projectors. L. Sansom. *Brit. J. of Photography*, 112 (15 Jan 65) p.52-3. il.

EXHIBITIONS, Stands, Wood

Building exhibition. Wood, 30 (Dec 65) p.29-31. il.

EXITS, Fires, Buildings. See BUILDINGS, Fires, Exits

EXOTHERMIC PADDING, Casting, Steel. See STEEL, Casting, Padding, Exothermic

EXPANDABLE HOUSES. See HOUSES, Expandable

EXPANDED EBONITE. See EBONITE, Expanded

EXPANDING MANDRELS. See MANDRELS, Expanding

EXPANSION, Brass, Tubes. See TUBES, Brass, Expansion

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VACUUM, Gauges, Calibration, Gases, Expansion

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EXPANSION, Thermal, Anisotropic, Single crystals, Mag-

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EXPANSION, Thermal, Anisotropic, Single crystals, Zinc.

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EXPANSION, Thermal, Borosilicate glass, Seals. See SEALS, Glass, Borosilicate, Thermal expansion

EXPANSION, Thermal, Bowing, Fuel elements, Nuclear reactors. See NUCLEAR REACTORS, Fuel elements, Bowing, Thermal expansion

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EXPANSION, Thermal, Fused silica. See SILICA, Fused, Thermal expansion

EXPANSION, Thermal, Germanium. See **GERMANIUM**,

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EXPANSION, Thermal, Graphite, Gas cooled nuclear reactors.

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EXPANSION, Thermal, Moulds, Investment casting. See

CASTING, Investment, Moulds, Thermal expansion

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EXPANSION, Thermal, Silicon. See **SILICON**, Thermal

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EXPANSION, Thermal, Single crystals, Rubidium bromide. See

RUBIDIUM BROMIDE, Crystals, Single, Thermal

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EXPANSION, Thermal, Single crystals, Sodium fluoride. See

SODIUM FLUORIDE, Crystals, Single, Thermal

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EXPANSION, Thermal, Zinc vanadate refractories. See

ZINC VANADATE, Refractories, Thermal expansion

EXPANSION JOINTS, Pipes, Reforming, Steam-Naphtha,

Synthesis gas production. See **SYNTHESIS GAS**,

Production, Steam-Naphtha, Reforming, Pipes, Expansion

joints

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CHEMICAL ENGINEERING, Experiments, Design

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Maximum yield for specified cost. S. E. Michaels & P. J.

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See **CHEMICAL REACTIONS**, High temperature, Exploding

wires

EXPLOSIONS, Animal feedingstuffs manufactures. See

ANIMAL FEEDINGSTUFFS, Manufactures, Explosions

EXPLOSIONS, Back boiler open fires, Heating, Housing. See

HOUSING, Heating, Open fires, Back boiler, Explosions

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COMPRESSORS, Starting, Bottles, Explosions

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EXPLOSIONS, Cylinders, Compressed gases. See **GASES**,

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EXPLOSIONS, Solutions, Electrolytic polishing. See

POLISHING, Electrolytic, Solutions, Explosions

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EXPLOSIVES

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NITROGLYCERIN

PENTOLITE

EXPLOSIVES, Bonding, Metals laminates. See **LAMINATES**,

Metals, Bonding, Explosives

EXPLOSIVES, Demolition

Can't pull it down?—blow it up. *Muck Shifter*, 23 (Oct 65)

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EXPLOSIVES, Expansion, Brass, Tubes. See **TUBES**, Brass,

Expansion, Explosives

EXPLOSIVES, Extrusion, Metals. See **METALS**, Extrusion,

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EXPLOSIVES, Forming, Brass, Sheets. See **SHEETS**, Brass,

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Steel, Mild, Forming, Explosives

EXPLOSIVES, Forming, Rocket components. See **ROCKETS**,

Components, Forming, Explosives

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Explosives Research and Development Establishment,

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EXPLOSIVES, Welding. See **WELDING**, Explosives

EXPLOSIVES RESEARCH AND DEVELOPMENT, Waltham

Abbey

Explosives Research and Development Establishment,

Waltham Abbey. *Chemistry & Industry* (20 Feb 65)

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EXPORTS, Cameras. See **CAMERAS**, Exports

EXPOSURE, Double, Photography. See **PHOTOGRAPHY**,

Double exposure

EXPOSURE, Films, Television. See **TELEVISION**, Films,

Exposure

EXPOSURE, Photomicrography. See **PHOTOMICROGRAPHY**,

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EXPOSURE, Radiography. See **RADIOGRAPHY**, Exposure

EXPOSURE, X-rays, Radiography. See **RADIOGRAPHY**, X-

ray, Exposure

EXPOSURE METERS, Photoemissive cells, Amplifiers

Sensitive exposure meter using a vacuum photocell.

R. H. S. Riordan. *J. of Scientific Instruments*, 42 (Mar

65) p.168-9. il.

EXPOSURE TESTS, Bricks. See **BRICKS**, Exposure tests

EXPOSURE TESTS, Paint. See **PAINT**, Exposure tests

EXTENSOMETERS. See **STRAIN GAUGES**

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acids, Solvent extraction

EXTRACTION, Solvent, Beta carotene determination, Baby

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EXTRACTION, Solvent, Coal. See **COAL**, Solvent extraction

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- EXTRACTION, Solvent, Hydrofluoric acid. See HYDROFLUORIC ACID, Solvent extraction
- EXTRACTION, Solvent, Inorganic acids. See INORGANIC ACIDS, Solvent extraction
- EXTRACTION, Solvent, Inorganic chemicals. See INORGANIC CHEMICALS, Solvent extraction
- EXTRACTION, Solvent, Metals. See METALS, Solvent extraction
- EXTRACTION, Solvent, Mineral dressing, Uranium ores. See URANIUM, Ores, Mineral dressing, Solvent extraction
- EXTRACTION, Solvent, Palladium (II). See PALLADIUM (II) Solvent extraction
- EXTRACTION, Solvent, Platinum (IV). See PLATINUM (IV) Solvent extraction
- EXTRACTION, Solvent, Recycling, Fuels, Fast reactors. See NUCLEAR REACTORS, Fast, Fuels, Recycling, Solvent extraction
- EXTRACTION, Solvent, Sodium nitroprusside determination. See SODIUM NITROPRUSSIDE, Determination, Solvent extraction
- EXTRACTION, Solvent, Tar acids. See TAR, Acids, Solvent extraction
- EXTRACTION, Solvent, Uranium, Fuels, Nuclear reactors. See NUCLEAR REACTORS, Fuels, Uranium, Solvent extraction
- EXTREMAL NON-LINEAR CONTROL SYSTEMS. See CONTROL SYSTEMS, Non-linear, Extremal
- EXTRUDED ALUMINIUM CONTAINERS, Packaging, Drugs. See DRUGS, Packaging, Containers, Aluminium, Extruded
- EXTRUDERS, Blow, Thermoplastics, Film, Corrugated tubes. See TUBES, Corrugated, Film, Thermoplastics, Extruders, Blow
- EXTRUDERS, Blow moulding, Thermoplastics. See THERMOPLASTICS, Moulding, Blow, Extruders
- EXTRUDERS, Compounders, Plastics. See PLASTICS, Compounders, Extruder
- EXTRUDERS, P.T.F.E., Tubes. See TUBES, P.T.F.E., Extruders
- EXTRUDERS, P.V.C. See P.V.C., Extruders
- EXTRUDERS, Plastics. See PLASTICS, Extruders
- EXTRUDERS, Plastics, Insulation, Electric cables. See CABLES, Electric, Insulation, Plastics, Extruders
- EXTRUDERS, Thermoplastics. See THERMOPLASTICS, Extruders
- EXTRUDERS, Thermoplastics film. See FILM, Thermoplastics, Extruders
- EXTRUDERS, Vacuum, Plastics. See PLASTICS, Extruders, Vacuum
- EXTRUSION, Acrylic plastics sheets. See SHEETS, Acrylic plastics, Extrusion
- EXTRUSION, Acrylonitrile-Butadiene-Styrene. See ACRYLONITRILE-BUTADIENE-STYRENE, Extrusion
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- EXTRUSION, Aluminium, Bodies, Motor vehicles. See MOTOR VEHICLES, Bodies, Aluminium, Extrusion
- EXTRUSION, Aluminium, Sheathing, Electric cables. See CABLES, Electric, Sheathing, Aluminium, Extrusion
- EXTRUSION, Aluminium, Tubes. See TUBES, Aluminium, Extrusion
- EXTRUSION, Backward, Cans. See CANS, Extrusion, Backward
- EXTRUSION, Clay, Bricks. See BRICKS, Clay, Extrusion
- EXTRUSION, Cold, Aluminium. See ALUMINIUM, Extrusion, Cold
- EXTRUSION, Cold, Components, Starters, Motor cars. See MOTOR CARS, Starters, Components, Extrusion, Cold
- EXTRUSION, Cold, Gudgeon pins, Engines, Motor cars. See MOTOR CARS, Engines, Gudgeon pins, Extrusion, Cold
- EXTRUSION, Cold, Metals. See METALS, Extrusion, Cold
- EXTRUSION, Cold, Metals, Flanges. See FLANGES, Metals, Extrusion, Cold
- EXTRUSION, Cold, Motor car parts. See MOTOR CARS, Parts, Extrusion, Cold
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- EXTRUSION, Cold, Steel. See STEEL, Extrusion, Cold
- EXTRUSION, Cold, Steel, Cylinders. See CYLINDERS, Steel, Extrusion, Cold
- EXTRUSION, Cold, Steel, Motor vehicle parts. See MOTOR VEHICLES, Parts, Steel, Extrusion, Cold
- EXTRUSION, Dies, Aluminium**
Selling a service in extrusion dies [Aluminium Tool & Die Co.]. -Light Metals & Metal Industry, 28 (Dec 65) p.34-5
- EXTRUSION, Dies, Conical, Analysis**
Upper-bound solution for axis-symmetric extrusion. J. Halling & L. A. Mitchell. International J. of Mechanical Sciences, 7 (Apr 65) p.277-95. il. refs.
- EXTRUSION, Hydrostatic, Aluminium. See ALUMINIUM, Extrusion, Hydrostatic
- EXTRUSION, Impact, Metals. See METALS, Extrusion, Impact
- EXTRUSION, Magnesium alloys. See MAGNESIUM, Alloys, Extrusion
- EXTRUSION, Metals. See METALS, Extrusion
- EXTRUSION, Nimonic alloys. See NIMONIC ALLOYS, Extrusion
- EXTRUSION, P.V.C. See P.V.C., Extrusion
- EXTRUSION, P. V. C., Sheets. See SHEETS, P. V. C., Extrusion
- EXTRUSION, Powder metallurgy, Tantalum carbide, Wires. See WIRES, Tantalum carbide, Powder metallurgy, Extrusion
- EXTRUSION, Presses**
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- EXTRUSION, Screw, Clay, Ceramics. See CERAMICS, Clay, Extrusion, Screw.
- EXTRUSION, Steel, Tubes. See TUBES, Steel, Extrusion
- EXTRUSION, Stress-strain relationships**
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- EXTRUSION, Thermoplastics. See THERMOPLASTICS, Extrusion
- EXTRUSION, Thermoplastics, Tubes. See TUBES, Thermoplastics, Extrusion
- EYE-SURFACES, Stages, Auditoriums. See AUDITORIUMS, Stages, Eye-surfaces
- EYES
Related Headings:
VISION
- EYES, Injuries, Lasers**
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- EYES, Movements, Recording, Equipment**
Electronics aids eye-movement research. Industrial Electronics, 3 (Jun 65) p.272-3. il.
- F.A.O. See FOOD AND AGRICULTURAL ORGANIZATION
- FABRICS**
Fabrics aesthetics. R. W. Moncrieff. Textile Weekly, 65 (15 Jan 65) p.83-4
- FABRICS**
Related Headings:
LACE
RIBBONS
WEAVING

FABRICS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Problems
*Faults*Properties
Thickness
Mechanical properties
Stiffness
Drape
Opacity
Flame resistance
Subjective properties

Technical activities

Measurement
Design
Manufactures
Drying
Scouring
Washing
De-sizing
Finishing
Bleaching
Dyeing
Printing
Flocking
Raising
Laminating
Sew-knitting
Folding
Making-up
Packaging
Baling

Types of fabrics

Check
Spot
Figured
Elastic
Resin finished
Water repellent
Non-woven
Knitted
Warp knit
Crochet
Coated
Laminated
Foamback
Metallised
Twill
Pile
Tufted
Narrow

Types by material

Cellulosic
Cotton
Linen
Woollen
Worsted
Man-made fibres
Man-made fibres—Wool
Film
Cellulosic
Rayon
Polynosic
Polynosics—Cotton
Cellulose triacetate
Polyamides
Nylon

FABRICS—SUBHEADINGS—Synopsis—cont.

*Man-made fibres—cont.**Polyester fibre*
Terylene
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*Glass fibre*Types by purpose
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FABRY PEROT INTERFEROMETERS. See INTERFEROMETERS, Fabry Perot**FACADES, Retail shops. See SHOPS, Retail, Facades****FACE CENTRED CUBIC ALLOYS. See ALLOYS, Face centred cubic****FACE CENTRED CUBIC METALS. See METALS, Face centred cubic****FACE SUPPORTS, Coal mining. See PIT-PROPS****FACES, Prostheses, Plastics**

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See TESTING, Non-destructive, Data recording, Facsimile

FACSIMILE MANUSCRIPTS. See MANUSCRIPTS, Facsimile**FACSIMILE TRANSMISSIONS, Hand writing. See HAND WRITING, Facsimile transmissions****FACSIMILE TRANSMISSIONS, Printing, Newspapers. See NEWSPAPERS, Printing, Facsimile transmission****FACSIMILE TRANSMISSIONS, Receivers**

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FACTORIES**Related Headings:**

ALCOHOLIC BEVERAGES, Bottling, Buildings
ALCOHOLIC BEVERAGES, Storage, Buildings
ALUMINIUM, Extrusion, Buildings
BACON, Processing, Factories
BEER, Bottling, Buildings
BEVERAGES, Processing, Factories, Architecture
CHINA, Potteries
CIGARETTES, Manufactures, Factories, Architecture
CLEAN ROOMS
CLOTHING, Manufactures, Factories
DIESEL ENGINES, Manufactures, Factories, Architecture
DRUGS, Factories, Architecture
ESSENTIAL OILS, Production, Factories
FIBRE BOARD, Manufactures, Factories
FOOD, Processing, Factories
HOUSING, Prefabrication, Components, Manufactures, Factories

FACTORIES**Related Headings—cont.**

KNITWEAR, Manufactures, Factories, Architecture
MEAT, Processing, Factories
PICKLES, Manufactures, Factories
PIPES, Asbestos cement, Manufactures, Factories, Architecture
STEEL, Mills
TEXTILES, Factories
TOBACCO, Processing, Factories, Architecture
WINES, Bottling, Buildings
WIRES, Drawing, Buildings
XEROGRAPHY, Machines, Manufactures, Factories

FACTORIES—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Problems

Fires

Noise

Construction & design

Design

Interior decoration

Parts

Roofs

Walls

Windows

Rooflights

Ceilings

Services

Heating

Air conditioning

Ventilation

Lighting

Electrical installations

Power supplies

FACTORIES, Air conditioning

Air conditioning in production. R. H. Eaton-Williams.

Production Engr., 44 (Oct 65) p.494-8

Heating, ventilating & air conditioning factories. C. Benham. *Building Materials*, 25 (Dec 65) p.53-6. il.

FACTORIES, Ceilings, Luminous, P.V.C.

Flexible p.v.c. ceilings. *Industrial Architecture*, 8 (Jul 65) p.430-2. il.

FACTORIES, Chocolate manufactures. See CHOCOLATE, Manufactures, Factories**FACTORIES, Design**

Factory design and construction. E. Mills. *Building Materials*, 25 (Dec 65) p.40-4. il.

FACTORIES, Electrical installations

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FACTORIES, Electrical installations, Safety

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FACTORIES, Fires

Structural fire safety in factories. E. Bird. *Building Materials*, 25 (Dec 65) p.75-9. il.

FACTORIES, Heating

Factory heating. Oil Firing, 7 (Apr 65) p.29-31

Heating plus ventilating for comfortable working conditions. *Heating & Air Conditioning*, 34 (Feb 65) p.120-1. il.

Heating the smaller factory. G. F. Cutting. *Brit. Manufacturer*, 49 (Jul 65) p.31-2. il.

Heating, ventilating & air conditioning factories. C. Benham. *Building Materials*, 25 (Dec 65) p.53-6. il.

FACTORIES, Heating, Air heaters, Radiant tube

Heating the factory interior: new system uses an air-heated radiant tube [Brightside Air-heated Radiant

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FACTORIES, Interior decoration, Colour

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FACTORIES, Noise

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FACTORIES, Rooflights

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FACTORIES, Roofs, Maintenance

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FACTORIES, Roofs, Suspended

Factory with suspended roof [Cartiere Burgo S.p.A., Mantua] Engineer, 219 (12 Feb 65) p.321-2. il.

FACTORIES, Town planning

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TRADING ESTATES

FACTORIES, Ventilation

Heating plus ventilating for comfortable working conditions.

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FACTORIES, Ventilation, Air change measurement

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FACTORIES, Walls

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FACTORIES, Windows

Window wall and cladding: factory at Helsinki, Finland. Architects' J., 142 (15 Dec 65) p.1433-4. il.

FACTORIES, Windows, Double glazed

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FACTORY SHIPS, Catamaran trawlers, Shrimps. See

SHRIMPS, Trawlers, Catamaran, Factory ships

FACTORY SHIPS, Fishing vessels. See **FISHING**, Vessels, Factory ships

FACTORY SHIPS, Trawlers, Shrimps. See **SHRIMPS**, Trawlers, Factory ships

FADED PRINTS, Photography. See **PHOTOGRAPHY**, Prints, Faded

FADING. See **LIGHT-FASTNESS**

FADING, Ionosphere, Reflection, Waves, H.F. radio. See **RADIO, H.F., Waves, Reflection, Ionosphere, Fading**

FADING, Microwave radio links, Telephony. See **TELEPHONY, Radio links, Microwave, Fading**

FADING, Radio. See **RADIO, Fading**

FAIRGROUND STRUCTURES

Related Headings:

SWITCHBACKS

FAIYUM

See

HYDROELECTRIC POWER STATIONS, Pumped storage, Faiyum

FALLING PLASTIC SPHERES. See **SPHERES, Plastics, Falling**

FALL-OUT, Radioactivity. See **RADIOACTIVITY, Fall-out**

FALL-OUT, Radioactivity, Caesium-134. See **CAESIUM-134, Radioactivity, Fall-out**

FALL-OUT, Radioactivity, Caesium-137. See **CAESIUM-137, Radioactivity, Fall-out**

FALL-OUT, Radioactivity, Carbon-14. See **CARBON-14, Radioactivity, Fall-out**

FALL-OUT, Radioactivity, Sodium-22. See **SODIUM-22, Radioactivity, Fall-out**

FALL-OUT, Radioactivity, Strontium-90. See **STRONTIUM-90, Radioactivity, Fall-out**

FALL-OUT, Radioactivity, Water. See **WATER, Radioactivity, Fall-out**

FALLING HORIZONTAL ROWS, Spheres. See **SPHERES, Horizontal rows, Falling**

FALSE TWISTER RING FRAMES, Drafting, Spinning, Woollen yarns. See **YARNS, Woollen, Spinning, Drafting, Ring frames, False twister**

FAN, L. T., and WANG, C. S.

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FANS, Cooling, Diesel engines. See **DIESEL ENGINES, Cooling, Fans**

FANS, Cooling systems, Engines, Motor vehicles. See **MOTOR VEHICLES, Engines, Cooling systems, Fans**

FANS, Impellers, Thermoplastics, Design

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FANS, Manufactures

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FANS, Paint, Spraying, Hydraulic equipment

Hydraulically operated paint circulating system [Woods of Colchester Ltd.] Product Finishing, 18 (Dec 65) p.53-5. il.

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FANS, Radiators, Motor cars. See **MOTOR CARS, Radiators, Fans**

FANS, Tangential

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FANS, Tangential, Electric heating, Buildings. See BUILDINGS, Heating, Electric, Fans, Tangential

FAR EAST

See

AIR TRANSPORT, Far East

FARADAY CAGES, Flux measurement, Ions, Electron emission microscopes. See MICROSCOPES, Electron, Emission, Ions, Flux, Measurement, Faraday cages

FARADAY CAGES, Scanning, Elastic diffraction, Electrons. See ELECTRON DIFFRACTION, Elastic, Scanning, Faraday cages

FARADAY EFFECT

Related Headings:

POLARIMETRY, Magnetic

FARADAY EFFECT, Argon, Plasmas. See PLASMAS, Argon, Faraday effect

FARADAY EFFECT, Indium antimonide. See INDIUM ANTIMONIDE, Faraday effect

FARADAY EFFECT, Magnetisation studies, Iron-nickel films. See FILMS, Iron-Nickel, Magnetisation, Studies, Faraday effect

FARADAY EFFECT, Precession studies, Electrical flux, Superconducting indium. See INDIUM, Superconducting, Electrical flux, Precession, Studies, Faraday effect

FARES, Buses. See BUSES, Fares

FARM ANIMALS. See ANIMALS, Farm

FARM BUILDINGS

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FARM BUILDINGS

Related Headings:

AGRICULTURAL MACHINERY, Buildings

BARNs

CALVES, Housing

CATTLE, Fattening, Housings

CATTLE, Housings

CATTLE, Pens

COWS, Housings

EWES, Breeding, Housings

FARMHOUSES

MILKING PARLOURS

PIGS, Farrowing, Housings

PIGS, Fattening, Housings

PIGS, Housings

POULTRY, Houses

SHEEP, Pens

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FARM BUILDINGS, Frames, Portal, Concrete, Reinforced, Reinforcement, Fracture, Brittle

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COMPUTERS, Education, Films

FILMS (Cinematography) Teaching aids, Fluid flow. See

FLUIDS, Flow, Teaching aids, Films

FILMS (Cinematography) Teaching aids, Technical education.

See **TECHNICAL EDUCATION, Teaching aids, Films**

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BURNISHING

COATING

DEBURRING

DIAMOND FINISHING

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"Let's get back to basic principles". *World Fishing*, 14 (Aug 65) p.49-50

FISHING

Related Headings:

ANCHOVIES, Fishing
HERRINGS, Fishing
LOBSTERS, Fishing
PILCHARDS, Fishing
RAY'S BREEM, Fishing
SCALLOPS, Fishing
SEINING
SHELLFISH
SWORDFISH, Fishing
TRAWLING
TUNAS, Fishing

FISHING—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Particular localities*Malaysia**Canada**Great Slave Lake**Micronesia***Education****Research***Catch analysis***Surveys****Industry****International law***Territorial limits***Equipment***Gear**Nets**Rods**Vessels***Activities***Echo sounding***Ports***Sheds***FISHING, Catch analysis, Computers**

Computer scheme for Canadian Fleet. *World Fishing*, 14 (Feb 65) p.79. il.

FISHING, Echo sounding, Acoustic scatter

Acoustic backscattering cross sections of fish at three frequencies and their representation on a universal graph. R. W. G. Haslett. *Brit. J. of Applied Physics*, 16 (Aug 65) p.1143-50. il. refs.

FISHING, Echo sounding, Narrow beam

Narrow beam echo sounder. *World Fishing*, 14 (Aug 65) p.41-2

FISHING, Education, Great Britain

Britain must co-ordinate research and training. F. C. Scott. *World Fishing*, 14 (May 65) p.39-40

Research and training in Britain—what the fishing industry thinks. T. Boyd. *World Fishing*, 14 (May 65) p.40-1

Will these training schemes work? *World Fishing*, 14 (Oct 65) p.6-7

FISHING, Education, Japan

Training fishermen in Japan. E. B. Slack. *World Fishing*, 14 (Jul 65) p.73+. il.

FISHING, Education, Newfoundland

Newfoundland training scheme for fishery growth [College of Fisheries, Navigation, Marine Engineering and Electronics, St. John's] *Fishing News International*, 4 (Jul/Sep 65) p.311-12. il.

FISHING, Education, Poland

Training and research in Poland. *World Fishing*, 14 (Aug 65) p.56+. il.

FISHING, Equipment

Some recent developments in mechanical engineering in the deep sea fishing industry. G. C. Eddie. *Instn. of Mechanical Engrs. Proc.*, 178 pt.1 no.27 (1963-64) p.743-78. il. refs.

FISHING, Gear

Fish finding by automatic unmanned devices. *World Fishing*, 14 (Aug 65) p.39-40.

Japanese demonstrate gear to New Zealanders. *World Fishing*, 14 (Jun 65) p.104+. il.

FISHING, Great Slave Lake

Canada's Great Slave Lake fishery. *World Fishing*, 14 (Aug 65) p.52+. il.

FISHING, Industry, Arabia

Arabian fisheries. M. Laing. *Hawker Siddeley Rev.*, 3 no.1 (1965) p.44-6. il.

FISHING, Industry, Alaska, Effect of earthquakes

Earthquake: heavy toll on Alaskan fisheries. G. Johansen. *Fishing News International*, 3 (Oct/Dec 64) p.289+. il.

FISHING, Industry, Egypt

U.A.R.'s 5-year drive. *Fishing News International*, 4 (Jul/Sep 65) p.287+. il.

FISHING, Industry, Ghana

Ghana gets moving. *Fishing News International*, 4 (Jan/Mar 65) p.47-50. il.

FISHING, Industry, Great Britain

Britain today. J. Burgess. *Fishing News International*, 4 (Jul/Sep 65) p.316+. il.

FISHING, Industry, Israel

Israel: a policy of expansion. A. Appel. *World Fishing*, 14 (Apr 65) p.42-4. il.

Modernisation changes face of Israel's fishing industry, pt.1. A. Appel. *World Fishing*, 14 (Mar 65) p.6-8. il.

FISHING, Industry, Japan

Japan: modern development of the fishing industry. N. Fujinami. *Fishing News International*, 4 (Oct/Dec 65) p.405-7

FISHING, Industry, Norway

Norway: a land of individualists. M. Dougall. *Fishing News International*, 4 (Oct/Dec 65) p.436+. il.

FISHING, Industry, Russia

How Russia develops her fisheries and sea power. W. M. Chapman. *Fishing News International*, 4 (Oct/Dec 65) p.402-3

Russia: the next ten years. A. Ishkov. *World Fishing*, 14 (Apr 65) p.45-6. il.

FISHING, Industry, Tropics

Putting motors on junks just isn't enough! R. Clark. *World Fishing*, 14 (Jul 65) p.69+. il.

FISHING, Industry, Uganda

Thriving industry in Uganda. J. Stoneman. *Fishing News International*, 3 (Oct/Dec 64) p.304+. il.

FISHING, Industry, Venezuela, Margarita Island

Fisheries of Margarita Island. A. Méndez-Arocha. *Fishing News International*, 3 (Oct/Dec 64) p.294+. il.

FISHING, Industry, West Africa

Cold storage for West Africa. *Fishing News International*, 4 (Jul/Sep 65) p.308-9. il.

FISHING, Industry, West Germany

Germany now. M. Dougall. *Fishing News International*, 4 (Apr/Jun 65) p.196-9. il.

FISHING, International law

Peaceful co-existence on the high seas. *Fishing News International*, 4 (Oct/Dec 65) p.413-4

FISHING, Lobsters. See **LOBSTERS, Fishing**

FISHING, Malaysia

Fishing the Malay way. D. Stevens. *Fishing News International*, 4 (Jan/Mar 65) p.77-8. il.

FISHING, Micronesia

Challenge in Micronesia. P. T. Wilson. *Fishing News International*, 4 (Jan/Mar 65) p.8+. il.

FISHING, Nets

Which net do I need? J. Garner. *World Fishing*, 14 (Sep 65) p.51-4. il.

FISHING, Nets

Related Headings:

SEINES

TRAWLS

FISHING, Ports, Hydraulic engineering

Eymouth harbour rebuilt with a new entrance. *Municipal J.*, 73 (4 Jun 65) p.1961+. il.

FISHING, Ports, Hydraulic engineering—cont.

- Eyemouth harbour reconstruction: elimination of large sandbar obstruction at entrance. Contract J., 205 (13 May 65) p.203-4. il.
- Fishermen benefit from hydraulic model [Eyemouth improvements] Engineering, 199 (28 May 65) p.701-2. il.
- Reconstruction of a Scottish harbour [Eyemouth] Civil Engng. & Public Works Rev., 60 (Jun 65) p.849-50. il.
- Reconstruction of a Scottish fishing port [Eyemouth] Surveyor, 126 (17 Jul 65) p.25-6. il.
- Waves of trouble. Consulting Engr., 28 (Jul 65) p.44-6. il.

FISHING, Ports, Structures, Earthquake-resistant

- Results of an earthquake in Japan's fishing ports: details of design criteria employed in reconstruction. T. Fukuchi. Dock & Harbour Authority, 46 (Nov 65) p.215-18. il.

FISHING, Research

- Billion dollar boost [United Nations Special Fund] Fishing News International, 4 (Apr/Jun 65) p.179-82. il.
- New research at Hamburg. A. von Brandt. Fishing News International, 4 (Apr/Jun 65) p.139+. il.

FISHING, Rods, Manufactures

- Ancient and modern combine to produce fishing rods. Mass Production, 41 (Jun 65) p.29+. il.
- Craftsmen and machine tools combine in new north east factory [Hardy Bros. (Alnwick) Ltd.] Metallurgia, 72 (Jul 65) p.21-2. il.

FISHING, Sheds, Conversion from boats

- Hulks of Holy Island. Architectural Rev., 137 (Apr 65) p.315-16. il.

FISHING, Surveys, Indian Ocean

- East of Aden: report on the fishery potential of the Indian Ocean. D. N. F. Hall. Fishing News International, 4 (Jan/Mar 65) p.20+. il.

FISHING, Territorial limits

- Asia's expanding territorial seas. S. Konda. Fishing News International, 4 (Apr/Jun 65) p.189+. il. refs.

FISHING, Vessels

- Consortium will supply standardised vessels. World Fishing, 14 (Dec 65) p.78+. il.
- Construction of fishing vessels in Poland. Shipbuilding & Shipping Record, 105 (10 Jun 65) p.737-41. il.
- Design considerations for small fishing vessels. E. C. B. Corlett. Motor Ship, 46 (Apr 65) p.41-2
- European fishing vessel completions during 1964. World Fishing, 14 (Feb 65) p.88-109
- New limits hot up pace of construction. J. Burgess. Fishing News International, 4 (Jan/Mar 65) p.29+. il.

FISHING, Vessels

- Related Headings:
- HERRINGS, Fishing, Vessels
 - LOBSTERS, Fishing, Vessels
 - SEINERS
 - TRAWLERS

FISHING, Vessels, Diesel engines

- Diesel with ancillary drives [Bergins Kelvin Co. TSM8] Fishing International, 4 (Oct/Dec 65) p.451+. il.

FISHING, Vessels, Engines

- How much power does a Scottish M.F.V. need? M. Hatfield. World Fishing, 14 (Sep 65) p.70+. il.
- Progress in design: engines. Fishing News International, 3 (Oct/Dec 64) p.99-104
- Some parameters for plotting fishing craft power. J.-O. Traung. Fishing News International, 3 (Oct/Dec 64) p.109-12

FISHING, Vessels, Engines, Fuels

- Fuels and lubricants for small engines. J. Burgess. Fishing News International, 3 (Oct/Dec 64) p.94-8. il.

FISHING, Vessels, Engines, Lubricants

- Fuels and lubricants for small engines. J. Burgess. Fishing News International, 3 (Oct/Dec 64) p.94-8. il.

FISHING, Vessels, Engines, Maintenance

- Mechanization of small fishing craft—section 4: problems of engine service and maintenance. E. Kvarin. Fishing News International, 3 (Oct/Dec 64) p.89-91
- Problems of servicing in less developed countries—marine engine and effects of climate. L. Stenstrom. Fishing News International, 3 (Oct/Dec 64) p.105-8. il.

FISHING, Vessels, Factory ships

- "Atlantik" class factory trawler. World Fishing, 14 (Jul 65) p.78+. il.
- "Bäck Dusan" a fish factory ship for North Korean owners. Shipbuilding & Shipping Record, 105 (20 May 65) p.638-40. il.
- Fish factory ships for the U.S.S.R. Shipbuilding & Shipping Record, 106 (30 Sep 65) p.450-4. il.
- Freezer-factory trawler "Atlantik". Shipbuilding & Shipping Record, 106 (29 Jul 65) p.148-50. il.
- Galicia: Spain's first factory ship. V. Paz-Andrade. Fishing News International, 4 (Jan/Mar 65) p.72-3. il.
- "Longva": a Norwegian fishing legend. Fishing News International, 4 (Oct/Dec 65) p.447. il.

FISHING, Vessels, Heating, Oil-fired, Equipment

- Keeping boats warm and dry [Webasto heater] World Fishing 14 (Nov 65) p.64+. il.

FISHING, Vessels, Hong Kong

- New boat for fisherman Ho. P. Wood. Fishing News International, 4 (Jan/Mar 65) p.88-90. il.

FISHING, Vessels, Hydraulic machinery

- Hydraulic deck machinery on Norwegian fishing vessels. Ship & Boat Builder, 18 (Oct 65) p.41+. il.

FISHING, Vessels, Insulation, Thermal, Polyurethane, Expanded

- Glass fibre-foam linings [Pluripast] World Fishing, 14 (Oct 65) p.81+. refs.

FISHING, Vessels, Navigation, Decca system, Inter-chain fixing

- How fishermen benefit from accurate navigation [Decca Navigator transmitting stations] Fishing News International, 4 (Oct/Dec 65) p.487+. il.

FISHING, Vessels, Navigation, Radar, Transistor

- Transistorized radars [Transar range, Decca Radar Co.] J. Burgess. Fishing News International, 4 (Jul/Sep 65) p.342-3. il.

FISHING, Vessels, Propellers

- Choosing the right propeller will pay off. P. J. Bollen. World Fishing, 14 (Oct 65) p.65+. il.

FISHING, Vessels, Propellers, Controllable pitch

- Controllable pitch propeller installation: for medium and high speed marine diesel engines. A. M. Liaen. Fishing News International, 3 (Oct/Dec 64) p.365+. il.

FISHING, Vessels, Radio, Single sideband

- What is single sideband? J. Mitchell. World Fishing, 14 (Feb 65) p.68+. il.

FISHING, Vessels, Refrigerated

- Keeping the catch fresh—advice from an expert. M. B. F. Ranken. World Fishing, 14 (Oct 65) p.55-9. il. ref.
- Polish cargo refrigeration lead. J. Levett. Heating & Air Conditioning, 35 (Nov 65) p.29. il.

FISHING, Vessels, Russia

- Focus on the Soviet fleet. P. Brady. Fishing News International, 4 (Oct/Dec 65) p.392+. il.

FISHING, Vessels, Steel

- Small boats: wood or steel? E. C. B. Corlett. World Fishing, 14 (Oct 65) p.49-50. il.

FISHING, Vessels, Wood

- Small boats: wood or steel? E. C. B. Corlett. World Fishing, 14 (Oct 65) p.49-50. il.

FISHING, Vessels, Wood, Pests, Marine worms

- War against the teredo. Fishing News International, 4 (Apr/Jun 65) p.134-6. il.

FISSION, Cross section, Ratio to neutron radiative capture, Plutonium-239, Fuels, Nuclear reactors. See **NUCLEAR REACTORS**, Fuels, Plutonium-239, Neutron radiative capture—Fission cross section ratio

FISSION, Curium-244. See **CURIUM-244**, Nuclei, Fission

FISSION, Neptunium. See **NEPTUNIUM**, Nuclei, Fission

FISSION, Plutonium. See **PLUTONIUM**, Nuclei, Fission

FISSION, Ternary, Nuclei, Uranium-235. See **URANIUM-235**, Nuclei, Fission, Ternary

FISSION, Uranium. See **URANIUM**, Nuclei, Fission

FISSION, Uranium-235. See **URANIUM-235**, Nuclei, Fission

FISSION FRAGMENTS, Irradiation, Uranium dioxide, Foil.

See **FOIL**, Uranium dioxide, Irradiation, Fission fragments

FISSION FRAGMENTS (Neutron bombardment) Kinetic energy, Effect of neutron energy

Mean kinetic energy of fragments with fission above the (n, nf) threshold. V. N. Okolovich & G. N. Smirenkin. J. of Nuclear Energy, 19 (Oct 65) p.821-4. il. refs.

FISSION PRODUCTS, Helium cooled nuclear reactors. See **NUCLEAR REACTORS**, Helium cooled, Fission products

FISSION PRODUCTS, Leak determination, Fuel elements, Magnox nuclear reactors. See **NUCLEAR REACTORS**, Magnox, Fuel elements, Leaks, Determination, Fission products

FISSION PRODUCTS, Plutonium, Fuels, Fast nuclear reactors. See **NUCLEAR REACTORS**, Fast, Fuels, Plutonium, Fission products

FISSION PRODUCTS, Wastes, Nuclear reactors. See **NUCLEAR REACTORS**, Wastes, Fission products

FISSURES, Clay, Soil. See **SOIL**, Clay, Fissures

FISSURES, Dolomite, Foundations. See **FOUNDATIONS**, Dolomite, Fissures

FITTINGS, Retail shops. See **SHOPS (Retail)** Fittings

FIXED BEDS, Catalytic, Mercaptans removal, Refining, Petroleum. See **PETROLEUM**, Refining, Mercaptans removal, Catalytic fixed bed

FIXED BEDS, Town gas production. See **GAS (Town) Production**, Fixed beds

FIXERS, Photography. See **PHOTOGRAPHY**, Fixers

FIXERS, Photography, Ammonium thiosulphate, Staining, Cotton, Industrial overalls. See **OVERALLS**, Industrial, Cotton, Staining, Photographic fixers, Ammonium thiosulphate

FIXING, Dyeing, Fabrics. See **FABRICS**, Dyeing, Fixing

FIXTURES, Aircraft manufactures. See **AIRCRAFT**, Manufactures, Fixtures

FIXTURES, Brazing. See **BRAZING**, Fixtures

FIXTURES, Broaching. See **BROACHING**, Fixtures

FIXTURES, Drilling. See **DRILLING**, Fixtures

FIXTURES, Machine tools

Getting to grips with workholding. L. H. Sanders. Metalworking Production, 109 (3 Nov 65) p.54-5. il.

FIXTURES, Machine tools, Leasing, East Germany
East Germans have state-run fixture leasing. Metalworking Production, 109 (27 Jan 65) p.80-1. il.

FIXTURES, Pneumatic

Air operated jigs and fixtures. Hydraulic Pneumatic Power, 11 (Apr 65) p.214-17. il.

FIXTURES, Welding. See **WELDING**, Fixtures

FLAGS, Ships

Ensigns. E. M. C. Barraclough. Motor Boat, 102 (23 Apr 65) p.58+. il.

FLAIL GRASS CUTTING MACHINES. See **GRASS**, Cutting, Machines, Flail

FLAME CUTTING, Continuous casting, Steel. See **STEEL**, Casting, Continuous, Flame cutting

FLAME CUTTING, Decoration, Buildings. See **BUILDINGS**, Decoration, Flame cutting

FLAME CUTTING, Plasma arc

Electrical methods of machining. B. W. Rooks. A.E.I. Engng., 5 (Sep/Oct 65) p.251-6. il. refs.

FLAME CUTTING, Plasma arc, Water

Use of water instead of gas for plasma arc. Tooling, 19 (Apr 65) p.41. il.

FLAME CUTTING, Sculpture. See **SCULPTURE**, Flame cutting

FLAME CUTTING, Shipbuilding. See **SHIPBUILDING**, Flame cutting

FLAME CUTTING, Zinc painted steel plates, Ships. See **SHIPS**, Plates, Steel, Painted, Zinc, Flame cutting

FLAME FAILURE PROTECTION, Burners. See **BURNERS**, Flame failure protection

FLAME GOUGING, Oxygen

Flame grooving process. L. B. Smith & W. French. Welding & Metal Fabrication, 33 (Jul 65) p.282-6. il.

FLAME HARDENING

Flame hardening continues to progress. Engineering, 200 (30 Jul 65) p.150-1. il.

FLAME IONISATION, Detectors, Gas-liquid chromatography, Aqueous solutions, Butyl alcohol. See **BUTYL ALCOHOL**, Aqueous solutions, Gas-liquid chromatography, Detectors, Flame ionisation

FLAME IONISATION, Detectors, Gas chromatography. See **GAS CHROMATOGRAPHY**, Detectors, Flame

FLAME IONISATION, Detectors, Gas-liquid chromatography, Aqueous solutions, Ethyl alcohol. See **ETHYL ALCOHOL**, Aqueous solutions, Gas-liquid chromatography, Detectors, Flame ionisation

FLAME PHOTOMETRY, Filter testing, Air conditioning. See **AIR CONDITIONING**, Filters, Testing, Flame photometry

FLAME PHOTOMETRY, Manganese, Determination, Cement. See **CEMENT**, Determination of manganese, Flame photometry

FLAME PHOTOMETRY, Strontium, Determination, Cement. See **CEMENT**, Determination of strontium, Flame photometry

FLAME PLATING

Flame plating [Engineering Products Division of Union Carbide Ltd.] Engng. Materials & Design, 8 (Jul 65) p.503. il.

Flame plating for wear resistance and abrasion protection. Product Finishing, 18 (Dec 65) p.75-7. il.

Flame plating of engineering components [Union Carbide Ltd.] Machine Shop, 26 (Nov 65) p.436-8

Union Carbide extend applications of flame plating.

N. Taylor. Metalworking Production, 109 (28 Apr 65) p.70-3. il.

FLAME PLATING, Components, Engines, Aircraft. See **AIRCRAFT**, Engines, Components, Flame plating

FLAME PLATING, Metals, Coatings, Uranium, Fuels, Gas cooled nuclear reactors. See **NUCLEAR REACTORS**, Gas cooled, Fuels, Uranium, Coatings, Metals, Flame plating

FLAME PLATING, Superalloys. See **SUPERALLOYS**, Flame plating

FLAME RESISTANCE, Expanded polystyrene. See **POLYSTYRENE**, Expanded, Flame resistance

FLAME RESISTANCE, Fabrics. See **FABRICS**, Flame resistance

FLAME RESISTANCE, Fabrics, Clothing. See **CLOTHING**, Fabrics, Flame resistance

FLAME RESISTANCE, Textiles. See **TEXTILES**, Flame resistance

FLAME RESISTANCE, Thermal insulating materials, Air conditioning plant. See **AIR CONDITIONING**, Plant, Insulating materials, Thermal, Flame resistance

FLAME RESISTANCE, Thermal insulating materials, Ventilation equipment. See **VENTILATION**, Equipment, Insulating materials, Flame resistance

FLAME RESISTANT FLUIDS, Pumps, Hydraulic machinery.

See **HYDRAULIC MACHINERY, Pumps, Fluids, Fire-resistant**

FLAME SPRAYING, Ceramics. See CERAMICS, Spraying, Flame**FLAME SPRAYING, Gas turbine components. See GAS TURBINES, Components, Spraying, Flame****FLAME SPRAYING, Internal combustion engine components. See ENGINES (Internal combustion) Components, Spraying, Flame****FLAMEPROOF ENCLOSURES, Electrical equipment, Coal mining. See COAL, Mining, Electrical equipment, Flameproof enclosures****FLAMEPROOF HOUSINGS, Fluorescent lamps. See LAMPS, Fluorescent, Housings, Flameproof****FLAMEPROOF SWITCHGEAR. See SWITCHGEAR, Flameproof****FLAMEPROOFED CELLULOSIC FABRICS. See FABRICS, Cellulosic, Flameproofed****FLAMES, Aerated, Burners, Natural gas. See GAS, Natural, Burners, Flames, Aerated****FLAMES, Ammonia-Hydrogen-Nitric oxide, Propagation, Speed**

Flame speeds and flammability limits in the combustion of ammonia: ternary mixtures with hydrogen, nitric oxide, nitrous oxide or oxygen. J. W. Armitage & P. Gray. *Combustion & Flame*, 9 (Jun 65) p.173-84. il. refs.

FLAMES, Ammonia-Hydrogen-Nitrous oxide, Propagation, Speed

Flame speeds and flammability limits in the combustion of ammonia: ternary mixtures with hydrogen, nitric oxide, nitrous oxide or oxygen. J. W. Armitage & P. Gray. *Combustion & Flame*, 9 (Jun 65) p.173-84. il. refs.

FLAMES, Ammonia-Nitric oxide-Nitrous oxide, Propagation, Speed

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FLAMES, Ammonia-Nitrous oxide-Oxygen, Propagation, Speed

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FLAMES, Carbon monoxide-Air, Flammability limits

Comparison of the influence of heat losses and three-dimensional effects on flammability limits. P. H. Kydd & W. I. Foss. *Combustion & Flame*, 8 (Dec 64) p.267-73. il. refs.

FLAMES, Diffusion, Laminar, Jet

Review of the fluid dynamic problem posed by the laminar jet diffusion flame. A. Goldburg & S. I. Cheng. *Combustion & Flame*, 9 (Sep 65) p.259-72. il. refs.

FLAMES, Fuel oil

Fuel oil flames. P. Brennan. *Heating & Air Conditioning*, 34 (Jan 65) p.33-4. il.

FLAMES, Gas-fired furnaces. See FURNACES, Gas-fired, Flames**FLAMES, Hexane, Low temperature**

Study of low temperature flames of *n*-hexane. S. Sueyasu & T. Hikita. *Combustion & Flame*, 9 (Mar 65) p.1-6. il. refs.

FLAMES, Hydrocarbons, Heat transfer

Luminous radiation from flames. M. W. Thring. *Chemical & Process Engng.*, 46 (Oct 65) p.544-51. il. refs.

FLAMES, Hydrogen-Oxygen-Nitrogen, Heat release

Rate of heat release in some slow burning hydrogen-oxygen flames. G. Dixon-Lewis & A. Williams. *Combustion & Flame*, 8 (Dec 64) p.249-55. il. refs.

FLAMES, Laminar, Kinetics

Solution of the hydrodynamic equations for laminar time-independent flames with arbitrarily large deviations from the kinetic steady state. E. S. Campbell. *Combustion & Flame*, 9 (Mar 65) p.43-52. il. refs.

FLAMES, Methane-Oxygen-Nitrogen, Inhibitors, Dust

Inhibition and extinction of premixed flames by dust particles. M. Dewitte, J. Vrebosch and A. Van Tiggelen. *Combustion & Flame*, 8 (Dec 64) p.257-66. il. refs.

FLAMES, Ozone

Theoretical analysis of chemical and physical processes in an ozone flame. E. S. Campbell. *Chemical Engng. Science*, 20. (Apr 65) p.311-29. il. refs.

FLAMES, Stoichiometric mixtures, Laminar, Propagation, Speed

Prediction of laminar flame speeds in stoichiometric mixtures with non-normal diffusion. J. Adler. *Combustion & Flame*, 9 (Sep 65) p.273-9. il. refs.

FLAMMABLE ATMOSPHERES, Electrical equipment. See ELECTRICAL EQUIPMENT, Flammable atmospheres**FLAMMABLE ATMOSPHERES, Lighting. See LIGHTING, Flammable atmospheres****FLAMMABLE SOLVENTS, Paint. See PAINT, Solvents, Flammable****FLANGED INSULATING JOINTS, Pipes. See PIPES, Joints, Insulating, Flanged****FLANGED JOINTS, Glass lined diaphragm valves. See VALVES, Diaphragm, Glass-lined, Joints, Flanged****FLANGES, Joints, Pipes, Hydrostatic transmissions. See TRANSMISSIONS, Hydrostatic, Pipes, Joints, Flanges****FLANGES, Metals, Extrusion, Cold, Hydrostatic**

On the cold extrusion of flanges against high hydrostatic pressure. J. M. Alexander & B. Lengyel. *J. of Inst. of Metals*, 93 (Jan 65) p.137-44. il.

FLANGES (Plates) Buckling

Local instability of lipped and beaded flanges—an approximate theory. P. S. Bulson. *Structural Engr.*, 42 (Jul 65) p.213-18. il.

FLANNEL, Clothing. See CLOTHING, Flannel**FLAPS, Deflection, Effect on pitching moments, Aerofoils.**

See **AEROFOILS, Pitching, Moments, Effect of flap deflection**

FLASH BOILERS, Heating, Public buildings, Baths. See BATHS, Buildings, Public, Heating, Boilers, Flash**FLASH BOILERS, Reforming, Light petroleum distillates, Town gas production. See GAS (Town) Production, Light petroleum distillates, Reforming, Boilers, Flash****FLASH EVAPORATORS, Distillation, Sea water. See SEA, Water, Distillation, Flash evaporators****FLASH PHOTOLYSIS, Gases. See GASES, Photolysis, Flash****FLASH PHOTOLYSIS, Iodine. See IODINE, Flash photolysis****FLASH WELDING, Austenitic stainless steel, Superheaters, Boilers, Power stations. See POWER STATIONS, Boilers, Superheaters, Steel, Stainless, Austenitic, Welding, Flash****FLASHING, Tungsten filaments, Partial pressure determination, Residual gases, Vacuum. See VACUUM, Residual gases, Partial pressure, Determination, Filaments, Tungsten, Flashing****FLASHLIGHT, Multiple, Industrial photography. See PHOTOGRAPHY, Industrial, Flashlight, Multiple****FLASHLIGHT PHOTOGRAPHY. See PHOTOGRAPHY, Flashlight****FLASHOVER, Air gaps. See AIR GAPS, Flashover****FLASHOVER, Polluted insulators, Electric power systems.**

See **ELECTRIC POWER SYSTEMS, Insulators, Polluted, Flashover**

FLASHOVER, Wet, Insulators. See INSULATORS, Flashover, Wet**FLATNESS, Optical. See OPTICAL FLATNESS**

FLATNESS, Surface plates. See SURFACE PLATES, Flatness
FLATS

- Hill housing. Architectural Design, 34 (Dec 64) p.627-9. il.
- Housing: architect's contribution. M. Richardson. Official Architecture & Planning, 28 (Jun 65) p.784-9. il.
- Recent housing schemes. Official Architecture & Planning, 28 (Mar 65) p.389. il.

FLATS

- Related Headings:
- MAISONNETTES

FLATS-SUBHEADINGS-Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Particular localities

Great Britain

London

- Greenwich
- Southwark
- Lambeth
- Wandsworth
- Camden
- Islington
- Newham
- Waltham Forest

Walton-on-Thames

Watford

Torquay

Bristol

St. Ives

Millendreath

Leamington Spa

Tipton

Halesowen

Derby

Salford

Llangefni

Germany

Lahr

France

Paris

Perreux

Vanves

Grenoble

Spain

Barcelona

Hong Kong

U.S.A.

Milwaukee

Technical operations

Prefabrication

Interior design

Interior decoration

Modernisation

Conversion from office buildings

Parts

Panels

Walls

Floors

Windows

Entrance halls

Services

Engineering services

Heating

Ancillaries

Car parks

FLATS-SUBHEADINGS-Synopsis-cont.

Types of flats

By material

Concrete

By occupant

Old people

FLATS, Barcelona

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FLOW, Columns, Chromatography. See CHROMATOGRAPHY, Columns, Flow

FLOW, Conical diffusers. See DIFFUSERS, Conical, Fluids, Flow

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FLOW, Diffusers. See DIFFUSERS, Flow

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FLOW, Dyeing, Textiles. See TEXTILES, Dyeing, Flow

FLOW, Exhaust, Internal combustion engines. See ENGINES (Internal combustion) Exhaust, Flow

FLOW, Extrusion, P.V.C. See P.V.C., Extrusion, Flow

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FLOW, Fluids. See FLUIDS, Flow

FLOW, Fluids, Hydraulic machinery. See HYDRAULIC MACHINERY, Fluids, Flow

FLOW, Forging, Steel. See STEEL, Forging, Flow

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FLOW, Gas, Combustion chambers. See COMBUSTION CHAMBERS, Gases, Flow

FLOW, Gas, Combustion chambers, Boilers, Power stations. See POWER STATIONS, Boilers, Combustion chambers, Gas flow

FLOW, Gas, Furnaces. See FURNACES, Gas, Flow

FLOW, Gas, Pulverised coal fired furnaces. See FURNACES, Pulverised coal fired, Gas flow

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FLOW, Granular solids. See SOLIDS, Granular, Flow

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FLOW, Horizontal, Liquid films. See FILMS, Liquid, Flow, Horizontal

FLOW, Horizontal, Water films. See FILMS, Water, Flow, Horizontal

FLOW, Inlet poppet valves, Internal combustion engines. See ENGINES (Internal combustion) Valves, Poppet, Inlet, Flow

FLOW, Intakes, Turbojets, Supersonic aircraft. See AIRCRAFT, Supersonic, Turbojets, Intakes, Flow

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FLOW, Rate, Effect on salt solutions, Corrosion, Mild steel, Pipes. See PIPES, Steel, Mild, Corrosion, Salt solutions, Effect of flow rate

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FLOW, Reacting gases, Ramjets. See RAMJETS, Gases, Reacting, Flow

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FLOW, Steam. See STEAM, Flow

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- FLOW**, Waves, Effect on mass transfer, Vertical plates, Flow, Liquid films. See **FILMS**, Liquid, Flow, Plates, Vertical, Mass transfer, Effect of wave flow
- FLOW**, Wedge shapes. See **WEDGE SHAPES**, Flow
- FLOW**, Weirs. See **WEIRS**, Flow
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- FLOW**, Wet steam. See **STEAM**, Wet, Flow
- FLOW**, Wind tunnels. See **WIND TUNNELS**, Flow
- FLOW COUNTERS**, X-ray fluorescence spectrometers, Polyvinyl alcohol-Sodium phosphate. See **POLYVINYL ALCOHOL-SODIUM PHOSPHATE**, X-ray fluorescence, Spectrometers, Counters, Flow
- FLOW STRESS**, Cobalt-Copper foil. See **FOIL**, Cobalt-Copper, Flow stress
- FLOW STRESS**, Single crystals, Copper. See **COPPER**, Crystals, Single, Flow stress
- FLOW TIME**, Ostwald viscometers. See **VISCOMETERS**, Ostwald, Flow time
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- FLUID-SOLID SYSTEMS**. See **SOLID-FLUID SYSTEMS**
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- FLUIDISED BATHS**, Heat treatment, Steel. See **STEEL**, Heat treatment, Fluidised baths
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- FLUIDISED BEDS**, Carbon dioxide-Sodium silicate binder mould manufactures. See **MOULDS**, Binders, Carbon dioxide-Sodium silicate, Manufactures, Fluidised beds
- FLUIDISED BEDS**, Chlorination, Ilmenite. See **ILMENITE**, Chlorination, Fluidised beds
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FABRICS, Cotton, Bleaching, Fluidity tests

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FABRICS, Linen, Bleaching, Fluidity tests

FLUIDS

Related Headings:

GASES

LIQUIDS

FLUIDS, Binary systems, Chemical reactions, Effect of coalescence dispersed phase, Studies, Monte Carlo method

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PIPELINES

PIPES

PIPEWORK

PUMPING

PUMPS

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Related Headings:

AERODYNAMICS

BOUNDARY LAYER

CAVITATION

COUETTE FLOW

DRAG

GAS FLOW

JETS

LIQUIDS, Flow

MOLECULAR FLOW

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VISCOUS FLOW

VORTICE STREETS

VORTICES**FLUIDS, Flow, Columns, Chromatography. See CHROMATOGRAPHY, Columns, Flow****FLUIDS, Flow, Conical diffusers. See DIFFUSERS, Conical, Fluids, Flow****FLUIDS, Flow, Control systems**

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PACKED COLUMNS, Packing, Grids, Flow

FLUIDS, Flow, Heat exchangers. See HEAT, Exchangers, Flow**FLUIDS, Flow, Measurement**

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CURRENT, Meters

FLOWMETERS

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- FLUORESCENCE**, X-rays, Spectroscopy, Tin determination. See **TIN**, Determination, X-ray fluorescence spectroscopy
- FLUORESCENCE MICROSCOPY**, Bagasse, Sugar cane. See **SUGAR CANE**, Bagasse, Microscopy, Fluorescence
- FLUORESCENT DYES**. See **DYES**, Fluorescent
- FLUORESCENT DYES**, Fabrics, Shirts. See **SHIRTS**, Fabrics, Dyes, Fluorescent
- FLUORESCENT DYES**, Staining, Chemical treatment studies, Fibres, Wool. See **WOOL**, Fibres, Chemical treatment, Studies, Staining, Dyes, Fluorescent
- FLUORESCENT INDICATOR ADSORPTION**, Analysis, Petroleum products. See **PETROLEUM**, Products, Analysis, Fluorescent Indicator Adsorption
- FLUORESCENT INKS**, Printing. See **PRINTING**, Inks, Fluorescent
- FLUORESCENT LAMPS**. See **LAMPS**, Fluorescent
- FLUORESCENT LAMPS**, Hospitals. See **HOSPITALS**, Lamps, Fluorescent
- FLUORESCENT LAMPS**, Industrial buildings. See **INDUSTRIAL BUILDINGS**, Lighting, Fluorescent lamps
- FLUORESCENT LIGHTING**, Cold stores. See **COLD STORES**, Lighting, Fluorescent
- FLUORESCENT TRACERS**, Coastal erosion determination. See **COASTAL EROSION**, Determination, Tracers, Fluorescent
- FLUORESCENT TRACERS**, Movement determination, Beds, Rivers. See **RIVERS**, Beds, Movement, Determination, Tracers, Fluorescent
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- FLUORIDES**, Molten, Platinum, Cathodes. See **CATHODES**, Platinum, Molten fluorides
- FLUORIDES**, Slags, Arc furnaces, Steel production. See **STEEL**, Production, Furnaces, Arc, Slags, Fluorides
- FLUORINATED ETHYLENE PROPYLENE**, Membranes, Electrodes, Oxygen tension measurement, Fermentation. See **FERMENTATION**, Oxygen tension, Measurement, Electrodes, Membranes, Fluorinated ethylene propylene
- FLUOROCARBOHYDRATES**
Related Headings:
GLYCOPYRANOSYL FLUORIDES
- FLUOROCARBONS**
Related Headings:
PERFLUOROCYCLOBUTANE
PERFLUOROETHANE
PERFLUOROPROPANE
- FLUOROCARBONS**, Aromatic, Production
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FLUOROCARBONS, Resins

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FLUORINATED ETHYLENE PROPYLENE
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FLUOROCARBONS, Rubber

Related Headings:

VITON

5 α -FLUORO-6-OXO-STEROIDS, Production, Nitrosyl fluoride, Reaction with steroid 5-enes

Reaction of nitrosyl fluoride with steroid 5-enes: a novel synthesis of 5 α -fluro-6-oxo-steroids. G. A. Boswell jr. Chemistry & Industry (20 Nov 65) p.1929-30. il. refs.

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Production of Derbyshire Fluorspar [Glebe Mines Ltd.] Engineer, 220 (8 Oct 65) p.583-4. il.

FLUORS PAR, Separation, China stone. See CHINA STONE, Fluorspar separation

FLUTED CORRUGATED BOARD, Containers. See CONTAINERS, Board, Corrugated, Fluted

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FLUTTER, Panels, Structures, Supersonic aircraft. See

AIRCRAFT, Supersonic, Structures, Panels, Flutter

FLUX, Electrical, Superconducting indium. See INDIUM, Superconducting, Electrical flux

FLUX, Fast neutrons, Homogeneous nuclear reactors. See NUCLEAR REACTORS, Homogeneous, Neutrons, Fast, Flux

FLUX, Magnetic. See MAGNETIC FLUX

FLUX, Magnetic, Distribution, Transformer cores. See TRANSFORMERS, Cores, Flux distribution

FLUX, Magnetic, Linkage, Synchronous electrical machinery. See ELECTRICAL MACHINERY, Synchronous, Flux linkage

FLUX, Magnetic, Superconducting niobium-tin cylinders. See CYLINDERS, Niobium-Tin, Superconducting, Magnetic flux

FLUX, Neutrons, Nuclear reactors. See NUCLEAR REACTORS, Neutrons, Flux

FLUXES, Leadless, Glazes. See GLAZES, Fluxes, Leadless

FLUXES, Oxygen process, Steel production. See STEEL, Production, Oxygen process, Fluxes

FLUXES, Soldering, Heat exchangers. See HEAT, Exchangers, Soldering, Fluxes

FLUXES, Zinc chloride, Soldering, Copper, Electric cables. See CABLES, Electric, Copper, Soldering, Fluxes, Zinc chloride

FLYING

Related Headings:

LANDING

TAKING-OFF

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FLYING, Descent, Instruments

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FLYING, Military aircraft. See AIRCRAFT, Military, Flying

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FOAM, Fire control, Aircraft. See AIRCRAFT, Fires, Control, Foam

FOAM, Fire control, Runways, Aerodromes. See AERODROMES, Runways, Fires, Control, Foam

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FOAM DRYING, Milk powders production. See **MILK, Powders, Production, Foam drying**

FOAM FRACTIONATION. See **BUBBLE FRACTIONATION**

FOAM SEPARATION

Chemical engineering of foam separation. P. F. Wace & D. L. Banfield. *Nature*, 206 (12 Jun 65) p.1131-2. il. refs.

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FOAM SEPARATION, Fluorozirconate. See **FLUORO-ZIRCONATE, Foam separation**

FOAMBACK CLOTHING. See **CLOTHING, Foamback**

FOAMBACK FABRICS. See **FABRICS, Foamback**

FOAMED EBONITE, Thermal insulation, Liquefied gases. See **GASES, Liquefied, Insulation, Thermal, Ebonite, Expanded**

FOAMED GLASS. See **GLASS, Expanded**

FOAMED PLASTICS. See **PLASTICS, Expanded**

FOAMED PLASTICS, Insulation, Cold stores. See **COLD STORES, Insulation, Plastics, Expanded**

FOAMED POLYMERS. See **POLYMERS, Expanded**

FOAMED POLYSTYRENE. See **POLYSTYRENE, Expanded**

FOAMED POLYSTYRENE, Chaplets, Moulds, Cavityless casting. See **CASTING, Cavityless, Moulds, Chaplets, Polystyrene, Expanded**

FOAMED POLYSTYRENE, Cores, Laminates, Buildings. See **BUILDINGS, Laminates, Cores, Polystyrene, Expanded**

FOAMED POLYSTYRENE, Models, Structures. See **STRUCTURES, Models, Polystyrene, Expanded**

FOAMED POLYSTYRENE, Spools, Thread, Sewing. See **SEWING, Thread, Spools, Polystyrene, Expanded**

FOAMED POLYSTYRENE-ASBESTOS CEMENT, Panels, Roofing. See **ROOFING, Panels, Asbestos cement-Foamed polystyrene**

FOAMED POLYSTYRENE, Panels, Asbestos cement-Foamed polystyrene

FOAMED POLYTHENE. See **POLYTHENE, Expanded**

FOAMED POLYURETHANE. See **POLYURETHANE, Expanded**

FOAMED POLYURETHANE, Cores, Laminates, Buildings. See **BUILDINGS, Laminates, Cores, Polyurethane, Expanded**

FOAMED POLYURETHANE, Insulation, Ducts, Warm air, Gas, Heating, Buildings. See **BUILDINGS, Heating, Gas, Warm air, Ducts, Insulation, Polyurethane, Expanded**

FOAMED POLYURETHANE, Insulation, Fish rooms, Trawlers. See **TRAWLERS, Fish rooms, Insulation, Polyurethane, Expanded**

FOAMED POLYURETHANE, Insulation, Refrigeration. See **REFRIGERATION, Insulation, Polyurethane, Expanded**

FOAMED POLYURETHANE, Insulation, Refrigerators. See **REFRIGERATORS, Insulation, Polyurethane, Expanded**

FOAMED POLYURETHANE, Panels, Prefabricated factories. See **FACTORIES, Prefabricated, Panels, Polyurethane, Expanded**

FOAMED POLYURETHANE, Sealants, Roads, Coal mining. See **COAL, Mining, Roads, Sealants, Polyurethane, Expanded**

FOAMED POLYURETHANE, Seats, Motor cars. See **MOTOR CARS, Seats, Polyurethane, Expanded**

FOAMED POLYURETHANE, Sound insulation, Buildings. See **BUILDINGS, Insulation, Sound, Polyurethane, Expanded**

FOAMED POLYURETHANE, Thermal insulation, Fishing vessels. See **FISHING, Vessels, Insulation, Thermal, Polyurethane, Expanded**

FOAMED POLYURETHANE, Thermal insulation, Pipes, Chemical engineering plant. See **CHEMICAL ENGINEERING, Plant, Pipes, Insulation, Thermal, Polyurethane, Expanded**

FOAMED POLYURETHANE, Thermal insulation, Railway rolling stock. See **ROLLING STOCK (Railways) Insulation, Thermal, Polyurethane, Expanded**

FOAMED POLYURETHANE, Upholstery. See **UPHOLSTERY, Polyurethane, Expanded**

FOAMED POLYURETHANE, Windscreens, Microphones. See **MICROPHONES, Windscreens, Polyurethane, Expanded**

FOAMED ZIRCONIA, Thermal insulation, Re-entry into atmosphere, Astronautics vehicles. See **ASTRONAUTICS, Vehicles, Re-entry into atmosphere, Heating, Insulation, Zirconia, Expanded**

FOCUSING, Electron beams. See **ELECTRON BEAMS, Focusing**

FOCUSING, Irradiation, Crystals. See **CRYSTALS, Irradiation, Focusing**

FOCUSING, Ultrasonics. See **ULTRASONICS, Focusing**

FODEN BAE7/32-DYSON ARTICULATED VEHICLES. See **MOTOR VEHICLES, Articulated, Types, Foden BAE7/32-Dyson**

FODEN TWIN-LOAD ARTICULATED VEHICLES. See **MOTOR VEHICLES, Articulated, Types, Foden Twin-Load**

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FOG LAMPS, Motor cars. See **MOTOR CARS, Lamps, Fog**

FOGGING, Photographic plates, Spark source mass spectroscopy, Inorganic chemicals. See **INORGANIC CHEMICALS, Mass spectroscopy, Spark source, Plates, Photographic, Fogg**

FOGS, Cloud chambers. See **CLOUD CHAMBERS, Fogs**

FOIL, Aluminium, Blocking, P.V.C. film, Covers, Books. See **BOOKS, Covers, Film, P.V.C., Blocking, Foil, Aluminium**

FOIL, Aluminium, Bombardment, Electron beams, Monoenergetic, Transmission curves

Transmission of monoenergetic electron beams through foils. G. Somogyi & Z. T. Bódy. *Brit. J. of Applied Physics*, 16 (Sep 65) p.1285-90. il. refs.

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FOIL, Aluminium, Quenching, Vacancies, Defects, Microscopy, Electron

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FOIL, Aluminium, Thermal insulating materials

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- FOIL, Cobalt, Magnetisation, Anisotropy, Effect of temperature, Studies, Electron microscopy**
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- FOIL, Cobalt-Copper, Flow stress, Effect of precipitate coherency**
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- FOIL, Copper-Tin, Irradiated (Neutrons) Yield point**
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- FOIL, Electron microscopy specimens, Acicular carbide precipitates determination, Steel-Chromium-Molybdenum. See STEEL-CHROMIUM-MOLYBDENUM, Determination of acicular carbide precipitates, Electron microscopy, Specimens, Foil**
- FOIL, Indium, Detectors, Epithermal neutrons, Nuclear reactors. See NUCLEAR REACTORS, Neutrons, Epithermal, Detectors, Foil, Indium**
- FOIL, Iron, Alpha, Irradiated, Dislocations, Loops**
Dislocation loops in irradiated iron. B. C. Masters. *Philosophical Magazine*, 11 (May 65) p.881-93. il. refs.
- FOIL, Iron, Alpha, Irradiated (Neutrons) Crystals, Defects, Studies, Electron microscopy**
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- FOIL, Iron-Silicon (Microscopy, Electron, Transmission) Production**
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- FOIL, Metal, Electron emission, Lasers**
Laser beam-induced electron and ion emission from metal foils. J. K. Cobb & J. J. Murray. *Brit. J. of Applied Physics*, 16 (Feb 65) p.271-3. il. refs.
- FOIL, Metal, Etching, Photochemical**
Photofabrication—new metalworking process. N. E. Sherlock. *Light Production Engng.*, 3 (Aug 65) p.47. il.
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- FOIL, Metal (Microscopy, Electron, Transmission) Polishing, Electrolytic**
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- FOIL, Metal (Microscopy, Electron, Transmission) Specimens, Electro thinning, Twin-jet technique**
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- FOIL, Metal, Resistance strain gauges. See STRAIN GAUGES, Resistance, Foil**
- FOIL, Metal, Rolling, Rolls, Lubricating oils, Filtration**
Automatic filtration of rolling-mill coolant oils. K. J. Daniells. *Sheet Metal Industries*, 42 (Mar 65) p.194-6. il.
- FOIL, Molybdenum, Irradiated, Neutrons, Annealing**
Neutron irradiation damage in molybdenum. M. E. Downey & B. L. Eyre. *Philosophical Magazine*, 11 (Jan 65) p.53-70. il. refs.
- FOIL, Molybdenum, Irradiated, Neutrons, Dislocations, Loops, Effect of temperature, Studies, Electron microscopy**
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- FOIL, Nickel, Magnetisation, Anisotropy, Effect of temperature, Studies, Electron microscopy**
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- FOIL, Nickel, Reflectors, Power supplies, Astronautics vehicles. See ASTRONAUTICS, Vehicles, Power supplies, Reflectors, Foil, Nickel**
- FOIL, Packaging, Food. See FOOD, Packaging, Foil**
- FOIL, Steel, Stainless, Deformation, Balls, Steel, Rolling**
Observations of deformation in stainless steel foils resulting from a rolling steel ball. L. E. Murr. *Applied Materials Research*, 4 (Jan 65) p.31-3. il. refs.
- FOIL, Uranium dioxide, Irradiation, Fission fragments**
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- FOKKER-PLANCK EQUATION, Stability, Control systems. See CONTROL SYSTEMS, Stability, Fokker-Planck equation**
- FOLDED PLATES, Roofs. See ROOFS, Plates, Folded**
- FOLDING, Cartons. See CARTONS, Folding**
- FOLDING, Fabrics. See FABRICS, Folding**
- FOLDING, Machines, Paper. See PAPER, Folding, Machines**
- FOLDING DOORS, Motor coaches. See MOTOR COACHES, Doors, Folding**
- FOLDING DOORS, Primary schools. See SCHOOLS, Primary, Doors, Folding**
- FOLDING-SLIDING DOORS, Television studios. See TELEVISION, Studios, Doors, Sliding-Folding**
- FOLKESTONE**
See TOWN PLANNING, Folkestone
- FOOD**
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- Food science and technology: four principal tasks. D. J. Tilgner. *Chemistry & Industry* (24 Apr 65) p.711-16. refs..
- Food that matters. J. Yudkin. *New Scientist*, 26 (20 May 65) p.524-8. il.
- Foods of the future. M. Pyke. *Discovery*, 26 (Feb 65) p.28-33. il.
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- FOOD**
Related Headings::
ALGAE
BAKERIES
BAKERY PRODUCTS
CASSAVA
COCOA
DAIRY INDUSTRY
EGGS
FISH
FRUIT
GRAIN
GROCERIES
HONEY
ICE CREAM
MACARONI
MARGARINE
MARMALADE
MEALS
MEAT

FOOD

Related Headings—cont.

MILK
NUT FOOD
OILS, Edible
POULTRY
PRESERVES
PROTEIN, Extraction
SEA FOOD
SOUPS
SOYA BEANS
SUGAR
SUGARS
SWEETS
VEGETABLES
VITAMINS

FOOD—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence followi. g.

Research

Regulations
Standards

Problems

Hygiene
Browning
Spoilage

Properties

Nutritional value
Flavours

Technical activities

Analysis
Determination of...

Inspection

Colour sorting

Processing

Preservation

Freezing
Freeze-drying
Drying

Evaporation

Evaporators

Sterilisation

Irradiation

Packaging

Containers
Labels

Canning

Cans

Storage

Transport

Additives

Flavouring materials
Colouring agents

Types of food

Liquid
Emulsions

Stored
Canned
Frozen

Baby

FOOD, Additives

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Why use food additives? D. W. Kent-Jones. Food Trade Rev., 35 (Dec 65) p.41-2

FOOD, Additives, Regulations

Hygiene in relation to foodstuffs. E. J. Bigwood. Food Trade Rev., 35 (Feb 65) p.45-7

FOOD, Additives, Research, Laboratories, Architecture

Laboratory, Corshalton [British Industrial Biological Research Assocn] Architect & Building News, 227 (23 Jun 65) p.1169-76. il.

FOOD, Additives, Toxicity

Food scares of food wisdom? J. Roeber. Chemistry & Industry (6 Nov 65) p.1852-3. il.

"Is the chemist a food poisoner?" (summary) J. B. M. Coppock. Food Trade Rev., 35 (Jun 65) p.47-50

FOOD, Analysis

Automatic analysis in the food industry. J. F. Narten. Chemistry & Industry (31 Jul 65) p.1365-7. il. refs.

FOOD (Baby)

Infant food based on coconut protein, groundnut protein isolate and skim milk powder, pt.1: preparation, chemical composition and shelf life. M. R. Chandrasekhara and others. J. of Science of Food & Agriculture, 15 (Dec 64) p.839-41. refs.

Infant food based on protein, ground nut protein isolate and skim milk powder, pt.2: overall growth promoting value and supplementary value to poor cereal diets. G. Rama Rao, K. Indira, G. Ramanathan, & M. A. Chandrasekhara. J. of Science of Food & Agriculture, 15 (Dec 64) p.841-6. refs.

Studies on the preparation, chemical composition and nutritive value of a spray-dried soya food suitable for feeding weaned infants. S. R. Shurpaleka, Soma Korula, M. R. Chandrasekhara & M. Swaminathan. J. of Science of Food & Agriculture, 16 (Feb 65) p.90-4. refs.

FOOD (Baby) Determination of carotene, Beta, Solvent extraction

Determination of β -carotene in a roller-dried food. A. E. Bender & A. J. Macfarlane. Analyst, 90. (Sep 65) p.536-40. refs.

FOOD, Browning, Non enzymic

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FOOD, Canned, Sterilisation value

Sterilisation value: its significance and practical application in the sterilisation of canned foods. M. Eisner. Food Trade Rev., 35 (Sep 65) p.57-60. il. refs.

FOOD, Canning

Canned foods. D. A. Herbert. Food Trade Rev., 35 (Jul 65) p.44-5

Developments in high speed can packing. A. L. Stuchbury. Packaging Rev., 85 (Sep 65) p.6-8. il.

Food packaging in metal. Tin-Printer & Box Maker, 41 (Apr 65) p.4. il.

Questions affecting the future of food canning. Municipal Engng., 142 (10 Sep 65) p.1869+

Recent technological developments in canning. D. A. Herbert. Food Manufacture, 40 (Mar 65) p.55+. il. refs.

FOOD, Canning, China

China reports on its canned foods industry. Tin (Mar 65) p.75-6. il.

FOOD, Canning, Education

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- FRUCTOSYL-1-KESTOSE**
Related Headings:
NYSTOSE
- FRUIT**
Related Headings:
APPLES
APRICOTS
GRAPES
GROUNDNUTS
JAMS
LEMONS
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FUEL ASH, Pulverised, Concrete, Foundations, Tall buildings. See BUILDINGS, Tall, Foundations, Concrete, Pulverised fuel ash

FUEL ASH, Pulverised, Fill, Embankments, Roads. See ROADS, Embankments, Fill, Pulverised fuel ash

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FUEL OIL-AMMONIUM NITRATE, Blasting, Mining, Vanadium. See **VANADIUM, Mining, Blasting, Ammonium nitrate-Fuel oil**

FUEL OIL-AMMONIUM NITRATE, Explosives, Mining. See **MINING, Explosives, Ammonium nitrate-Fuel oil**

FUEL OIL-COAL, Open-hearth furnaces. See **FURNACES, Open-hearth, Coal-Fuel oil**

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FUELS

· Related Headings:
COAL
COMBUSTION
FLUE GAS
GAS, Natural
GAS (Town)
PEAT

FUELS, Aircraft. See **AIRCRAFT, Fuels**

FUELS, Artificial satellites. See **SATELLITES, Artificial, Fuels**

FUELS, Boilers. See **BOILERS, Fuels**

FUELS, Boilers, Milk processing. See **MILK, Processing, Boilers, Fuels**

FUELS, Building equipment. See **BUILDING, Equipment, Fuels**

FUELS, Consumption, Internal combustion engines. See **ENGINES (Internal combustion) Fuels, Consumption**

FUELS, Cotton seed husks, Boilers, Cotton fibres processing. See **COTTON, Fibres, Processing, Boilers, Fuels, Cotton seed husks**

FUELS, Diesel engines. See **DIESEL ENGINES, Fuels**

FUELS, Diesel engines, Commercial vehicles. See **VEHICLES, Commercial, Diesel engines, Fuels**

FUELS, Diesel engines, Motor vehicles. See **MOTOR VEHICLES, Diesel engines, Fuels**

FUELS, Diesel engines, Ships. See **SHIPS, Diesel engines, Fuels**

FUELS, Engines, Boosters, Missiles. See **MISSILES, Boosters, Engines, Fuels**

FUELS, Engines, Commercial vehicles. See **VEHICLES, Commercial, Engines, Fuels**

FUELS, Engines, Fishing vessels. See **FISHING, Vessels, Engines, Fuels**

FUELS, Engines, Motor cars. See **MOTOR CARS, Engines, Fuels**

FUELS, Engines, Motor vehicles. See **MOTOR VEHICLES, Engines, Fuels**

FUELS, Engines, Racing cars. See **MOTOR CARS (Racing) Engines, Fuels**

FUELS, Fast reactors. See **NUCLEAR REACTORS, Fast, Fuels**

FUELS, Fork trucks. See **FORK TRUCKS, Fuels**

FUELS, Furnaces, Melting, Glass. See **GLASS, Melting, Furnaces, Fuel**

FUELS, Gas cooled nuclear reactors. See **NUCLEAR REACTORS, Gas cooled, Fuels**

FUELS, Gas turbines, Aircraft. See **AIRCRAFT, Gas turbines, Fuels**

FUELS, Glass manufactures. See **GLASS, Manufactures, Fuels**

FUELS, Great Britain

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FUELS, Heating, Buildings. See **BUILDINGS, Heating, Fuels**

FUELS, Heating, Housing. See **HOUSING, Heating, Fuels**

FUELS, Internal combustion engines. See **ENGINES (Internal combustion) Fuels**

FUELS, Kilns, Pottery. See **POTTERY, Kilns, Fuels**

FUELS, Liquid, Combustion, Demonstration, Models

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Horsley. *Technical Education*, 7 (Sep 65) p.419-20. il.

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FUELS, Petroleum. See PETROLEUM, Fuels**FUELS, Plutonium—Uranium, Graphite moderated nuclear reactors. See NUCLEAR REACTORS, Graphite moderated, Fuels, Plutonium—Uranium****FUELS, Resources**

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FUELS, Steel production. See STEEL, Production, Fuel**FUELS, Supersonic aircraft. See AIRCRAFT, Supersonic, Fuels****FUELS, Transport**

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FUGACITY, Thermodynamics, Phase equilibria. See EQUILIBRIA, Phase, Thermodynamics, Fugacity**FULBOURN**

See

HOSPITALS, Fulbourn

FULLERS' EARTH, Extraction

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FULL-FASHIONED KNITWEAR. See KNITWEAR, Full-fashioned

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FUME CUPBOARDS, Perchloric acid. See **PERCHLORIC ACID**, Fume cupboards

FUME STACKS, Boilers. See **BOILERS**, Chimneys

FUMES, Acids, Peeling, Fruit. See **FRUIT**, Peeling, Acids, Fumes

FUMES, Acids, Peeling, Vegetables. See **VEGETABLES**, Peeling, Acids, Fumes

FUMES, Arc furnaces, Steel production. See **STEEL**, Production, Furnaces, Arc, Fumes

FUMES, Blasting, Tunnels, Hydroelectric power stations. See **HYDROELECTRIC POWER STATIONS**, Tunnels, Blasting, Fumes

FUMES, Extraction, Equipment

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FUMES, Foundry practice. See **FOUNDRY PRACTICE**, Fumes

FUMES, Hydrochloric acid, iso Pentane production. See *iso* **PENTANE**, Production, Hydrochloric acid fumes

FUMES, LD, Oxygen process, Steel production. See **STEEL**, Production, Oxygen process, LD, Fumes

FUMES, Oxygen process, Steel production. See **STEEL**, Production, Oxygen process, Fumes

FUMES, Steel casting. See **STEEL**, Casting, Fumes

FUMIGATION, Storage, Grain. See **GRAIN**, Storage, Fumigation

FUNCTION GENERATORS

Related Headings:

INTERPOLATORS

FUNCTION GENERATORS, Varistors, Silicon carbide

Design data for voltage dependent resistor function generators. G. Brown & R. A. B. Bond. *Electronic Engng.*, 37 (Sep 65) p.584-8. il. refs.

FUNCTION SYNTHESISERS, Transistor, Waveforms. See **WAVEFORMS**, Function synthesisers, Transistor

FUNCTION SYNTHESISERS, Waveforms. See **WAVEFORMS**, Function synthesisers

FUNCTIONAL ANALYSIS, Minimum time control systems. See **CONTROL SYSTEMS**, Minimum time, Functional analysis

FUNCTIONALS, Linear electrical networks analysis. See **NETWORKS**, Electrical, Linear, Analysis, Functionals

FUNCTIONS, Maxima, Constrained, Solution

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FUNCTIONS, Minima, Approximation

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FUNCTIONS, Minima, Approximation, Iterative methods

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FUNDAMENTAL PARTICLES. See **PARTICLES**, Fundamental

FUNGI

Related Headings:

ASPERGILLUS ORYZAE

FUNGI, Thermophilic

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FUNGICIDAL PAINT. See **PAINT**, Fungicidal

FUNGICIDES

Related Headings:

DITHIOCARBAMATES, Fungicides

FUNGICIDES, Potatoes. See **POTATOES**, Fungicides

FUNGICIDES, Wheat. See **WHEAT**, Fungicides

FURANE, Resins, Binders, Cores, Moulds, Casting, Steel. See **STEEL**, Casting, Moulds, Cores, Binders, Furane resins

FURFURAL

Some notes on furfural. A. G. Arend. *Perfumery &*

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FURFURALDEHYDE. See **FURFURAL**

FURNACE BRAZING. See **BRAZING**, Furnace

FURNACES

Related Headings:

CUPOLAS

MICROFURNACES

FURNACES—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Properties

Gas, Flow

Technical activities

Manufactures

Parts and ancillaries

Tubes

Refractories

Dampers

Fuels

Pulverised anthracite

Kinds of furnace

Pulverised coal fired

Gas fired

Oil fired

Electric

Plasma arc

Infra-red

Blast

Open hearth

FURNACES, Arc, Steel production. See **STEEL**, Production, Furnaces, Arc

FURNACES, Arc, Vacuum melting, Titanium. See **TITANIUM**, Melting, Vacuum, Furnaces, Arc

FURNACES, Arc, Voltage fluctuations. See **VOLTAGE**, Fluctuations, Arc furnaces

FURNACES, Blast

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FURNACES, Blast, Charging, Bells, Repair

Repair of blast-furnace big bells. G. F. Rybochkin. *Steel Times*, 191 (2 Jul 65) p.20-1. il.

FURNACES, Blast, Charging, Machines, Control systems

Automatic charging of blast furnaces. V. G. Gur'yanov. *Steel Times*, 190 (29 Jan 65) p.184-5

FURNACES, Blast, Control systems

Developments in automation of blast-furnace production [Russia] Yu Ya Treister. *Steel Times*, 190 (26 Mar 65) p.474-5

FURNACES, Blast, Control systems, Computers

French on-line computer on the Mondeville blast furnace.

J. Raguin. *Steel Times*, 191 (5 Nov 65) p.582-5. il.

FURNACES, Blast, Lead production. See LEAD, Production, Blast furnaces

FURNACES, Blast, Manganese-Iron production. See IRON-MANGANESE, Production, Furnaces, Blast

FURNACES, Blast, Manganese-Silicon production. See MANGANESE-SILICON, Production, Furnaces, Blast

FURNACES, Blast, Refractories, Effect of carbon

Some new ideas on the destruction of blast furnace refractories by carbon. Refractories J. (Feb 65) p.53+. il.

FURNACES, Blast, Slags, Aluminium ions, Co-ordination numbers

Co-ordination state of aluminium ions in $\text{CaO-Al}_2\text{O}_3\text{-SiO}_2$ glasses. S. K. Chopra & C. A. Taneja. *J. of Applied Chemistry*, 15 (Apr 65) p.157-61. refs.

FURNACES, Blast, Slags, Cement. See CEMENT, Blast furnace slag

FURNACES, Blast, Slags, Glass-Ceramics production. See GLASS-CERAMICS, Production, Blast furnace slags

FURNACES, Blast, Slags, Silica, Reduction

Kinetics of silica reduction by carbon-saturated iron, pt.1: electrochemical contribution to transfer. M. Grimbé, R. G. Ward & D. J. Williams. *J. of Iron & Steel Inst.*, 203 (Mar 65) p.264-7. il. refs.

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Operation of hotblast stoves with preheated blast dilution. E. M. Goldfarb & L. V. Legavets. *Steel Times*, 190 (14 May 65) p.702-3. il.

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Automatic reversal of hot-blast stoves [Klement Gottwald Iron and Steel Works] *Steel Times*, 191 (13 Aug 65) p.202-8. il. refs.

FURNACES, Blast, Tuyeres, Fuel injection

Injection in the blast furnace. M. Vasquez & R. Maulvaux. *Iron & Steel*, 38 (Sep 65) p.471+

Saving coke by injecting other fuels in the blast furnace. E. W. Voice. *Brit. Steelmaker*, 31 (Sep 65) p.282+. il.

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Oxygen injection deep into the hearth of a blast furnace.

N. I. Loginov, A. N. Checkuro & V. M. Dolgov. *Steel Times*, 191 (9 Jul 65) p.48-51. il.

FURNACES, Blast, Zinc production. See ZINC, Production, Blast furnaces

FURNACES, Carburising. See CARBURING, Furnaces

FURNACES, Cyclone, Water tube boilers. See BOILERS, Water tube, Furnaces, Cyclone

FURNACES, Dampers

Dampers. *Power & Works Engng.*, 59 (Dec 64) p.26-31. il.

FURNACES, Electric, Annealing, Blackheart malleable iron.

See IRON, Malleable, Blackheart, Annealing, Furnaces, Electric

FURNACES, Electric, Forging. See FORGING, Furnaces, Electric

FURNACES, Electric, Graphite, Laboratory apparatus

High temperature (3000°C) graphite furnace for laboratory use. H. Marsh & W. F. K. Wynne-Jones. *J. of Scientific Instruments*, 42 (Sep 65) p.710-11. il. refs.

FURNACES, Electric, Heat treatment. See HEAT, Treatment, Furnaces, Electric

FURNACES, Electric, Heating, Steel, Billets. See BILLETS, Steel, Heating, Furnaces, Electric

FURNACES, Electric, Iron production. See IRON, Production, Furnaces, Electric

FURNACES, Electric, Manufactures

Open day at Royce Electric Furnaces Limited: typical products displayed. *Metallurgia*, 71 (Jan 65) p.24-6. il.

FURNACES, Electric, Melting. See MELTING, Furnaces, Electric

FURNACES, Electric, Melting, Low pressure die casting. See DIE CASTING, Low pressure, Melting, Furnaces, Electric

FURNACES, Electric, Stoving, Vitreous enamelling, Cast iron. See IRON, Cast, Enamelling, Vitreous, Stoving, Furnaces, Electric

FURNACES, Electric, Stoving, Vitreous enamelling, Steel sheets. See SHEETS, Steel, Enamelling, Vitreous, Stoving, Furnaces, Electric

FURNACES, Electric, Temperature control systems

AEI's latest range of temperature controllers. *A.E.I. Engng.*, 5 (Mar/Apr 65) p.80-1. il.

FURNACES, Electric, Vacuum annealing, Stainless steel, Rods. See RODS, Steel, Stainless, Annealing, Vacuum, Furnaces, Electric

FURNACES, Electric, Vacuum annealing, Stainless steel, Wires. See WIRES, Steel, Stainless, Annealing, Vacuum, Furnaces, Electric

FURNACES, Electric, Vacuum melting. See MELTING, Vacuum, Furnaces, Electric

FURNACES, Forging, Steel. See STEEL, Forging, Furnaces

FURNACES, Gas, Flow

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FURNACES, Gas-fired

Cheaper industrial heat from town gas. *Engineering*, 199 (9 Apr 65) p.461-2. il.

Development of gas heating applications. *A. J. Power. Light Metals & Metal Industry*, 28 (May 65) p.53-61. il.

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High-power gas burners: survey of the research projects at the Gas Council's Midland Research Station. *Iron & Steel*, 38 (May 65) p.222-3. il.

Industrial gas research at Solihull [Midlands Research Station] *Brit. Steelmaker*, 31 (May 65) p.148+. il.

Industrial gas research laboratories [Midlands Research Station of Gas Council, Solihull] *Engineer*, 219 (9 Apr 65) p.634-5. il.

Midlands Research Station at Solihull. *Gas World*, 161 (29 May 65) p.645+. il.

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Pattern of the future: recent developments in industrial gas utilisation at the Gas Council's Midland Research Station, Solihull. E. Ford. *Gas J.*, 322 (5 May 65) p.88-94. il.

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FURNACES, Gas fired—cont.

Seeking new ideas for use by industry [Industrial Utilisation Centre of the Midlands Research Station of the Gas Council] Gas (Gas Publications) 28 (Jun 65) p.19-22. il.

FURNACES, Gas-fired, Flames, Heat transfer, Measurement, Calorimeters

Heat transfer from flames in an experimental furnace. F. Fitzgerald & W. Thizing. J. of Inst. of Fuel, 38 (Feb 65) p.76-8. il. refs.

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GAS (Town)

Related Headings:

GAS-HOLDERS
PRODUCER GAS
SYNTHESIS GAS
WATER GAS

GAS (TOWN)—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

*History**Particular localities*

Great Britain

Scotland

Europe

Belgium

Eastern Europe

Hungary

Russia

Asia

China

*Education**Research**Properties*

Combustion

*Technical activities**Analysis*

Gas chromatography

Production

Purification

Drying

*Storage**Distribution*

Pressure control

Pipes

Mains

Pipelines

Valves

Meters

Constituents

Methane-Hydrogen

Equipment

Appliances

Burners

Consumption

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GAS (Town) Boilers, Heating, Houses, See HCUSES, Heating, Boilers, Gas-fired

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GAS (Town) Storage, Underground, France

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GAS (Town) Tea making appliances. See **TEA MAKING APPLIANCES, Gas-fired**

GAS (Town) Tunnel kilns, Sanitary ware manufactures. See **SANITARY WARE, Manufactures, Kilns, Tunnel, Gas-fired**

GAS (Town), Valves

An electrically-operated two-way gas valve. J.B. Watkins & B.C. Peacock. *Laboratory Practice*, 14 (Nov 65) p.1295+. il.

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GAS—AIR, Reversal, Stoves, Blast furnaces. See **FURNACES, Blast, Stoves, Air—Gas reversal**

GAS ANALYSERS, Helium impurities, Helium cooled nuclear reactors. See **NUCLEAR REACTORS, Helium cooled, Helium, Impurities, Gas analysers**

GAS ANALYSERS, Infra-red

Infra-red process analyser based on interference filters. J. J. Howarth & H. M. Stanier. *J. of Scientific Instruments*, 42 (Aug 65) p.526-8. il. refs.

GAS ANALYSERS, Infra-red, Transistor

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GAS ANALYSERS, Mass spectrometers

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GAS BEARINGS, Grinding spindles. See **GRINDING, Spindles, Bearings, Gas**

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GAS CELLS, Infra-red spectroscopy, Halogenated nitroso compounds. See **NITROSO COMPOUNDS, Halogenated, Spectroscopy, Infra-red, Gas cells**

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GAS CHROMATOGRAPHY, Baseline drift, Correctors, Computers, Analogue

Baseline drift corrector for gas chromatography. *Chemical Processing*, 11 (May 65) p.36-7. il.

GAS CHROMATOGRAPHY, Carbon monoxide, Coal mining.

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GAS CHROMATOGRAPHY, Detectors, Flame

Preparative chromatograph with flame detector [Autotrep 705] *Chemical Processing*, 11 (Jun 65) p.40-1. il.

GAS CHROMATOGRAPHY, Detectors, Ionisation, Argon

Ionization mechanism in a micro-argon detector for gas chromatography. A. J. L. Collinson, J. R. Bennett & D. W. Hill. *Brit. J. of Applied Physics*, 16 (May 65) p.631-8. il. refs.

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GAS CHROMATOGRAPHY, Diacetyl determination, Neck space air, Bottled beer. See **BEER, Bottled, Air, Neck space, Determination of diacetyl, Gas chromatography**

GAS CHROMATOGRAPHY, Distillation curve simulation, Refining, Petroleum. See **PETROLEUM, Refining, Distillation, Curves, Simulation, Gas chromatography**

GAS CHROMATOGRAPHY, Ethynylcyclohexanol, Inhibitors, Acid solutions, Corrosion, Mild steel. See **STEEL, Mild, Corrosion (Acid solutions) Inhibitors, Ethynylcyclohexanol, Studies, Gas chromatography**

GAS CHROMATOGRAPHY, Firedamp, Coal mining. See **COAL, Mining, Firedamp, Gas chromatography**

- GAS CHROMATOGRAPHY, Distillates, Natural gas. See GAS, Natural, Distillates, Gas chromatography
- GAS CHROMATOGRAPHY, Fractions, Collection**
Apparatus for continuous multi-stage extraction. G. S. Hartley, R. Howes & J. W. G. McLauchlan. *Laboratory Practice*, 14 (May 65) p.578-85. il. refs.
- Collecting device for use in gas chromatography. E. Kemp & O. Rogne. *Chemistry & Industry* (6 Mar 65) p.418. il. refs.
- GAS CHROMATOGRAPHY, Fractions, Collection, Detectors, Microbalances**
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- GAS CHROMATOGRAPHY, Inert gases, Fission products, Leak determination, Fuel elements, Magnox nuclear reactors. See NUCLEAR REACTORS, Magnox, Fuel elements, Leaks, Determination, Fission products, Gases, Inert, Gas chromatography
- GAS CHROMATOGRAPHY, Instruments, Integrators, Print-out**
Automatic print-out device for the gas chromatograph. R. C. Marshall. *Instrument Engr.*, 4 (Apr 65) p.46-51. il. refs.
- GAS CHROMATOGRAPHY, Leather. See LEATHER, Gas chromatography
- GAS CHROMATOGRAPHY, Liquefied petroleum gas. See GAS, Liquefied petroleum, Gas chromatography
- GAS CHROMATOGRAPHY, Oils, Ocimum kilimandscharicum. See OCIMUM KILIMANDSCHARICUM, Oils, Gas chromatography
- GAS CHROMATOGRAPHY, Oxygen determination, Feed-water, Boilers. See BOILERS, Feedwater, Determination of oxygen, Gas chromatography
- GAS CHROMATOGRAPHY, Pentadecanolide determination, Essential oils, Angelica archangelica. See ANGELICA ARCHANGELICA, Essential oils, Determination of pentadecanolide, Gas chromatography
- GAS CHROMATOGRAPHY, 2,3-Pentanedione determination, Neck space air, Bottled beer. See BEER, Bottled, Air, Neck space, Determination of 2,3-pentanedione, Gas chromatography
- GAS CHROMATOGRAPHY, Polymers. See POLYMERS, Gas chromatography
- GAS CHROMATOGRAPHY, Residual solvents determination, Casting, Base materials, Photographic film. See FILM, Photographic, Base materials, Casting, Solvents, Residual, Determination, Chromatography, Gases
- GAS CHROMATOGRAPHY, Residue determination, Chlorinated insecticides. See INSECTICIDES, Chlorinated, Residues, Determination, Gas chromatography
- GAS CHROMATOGRAPHY, Residue determination, Organophosphorous compounds insecticides. See ORGANO-PHOSPHOROUS COMPOUNDS, Insecticides, Residues, Determination, Gas chromatography
- GAS CHROMATOGRAPHY, Spontaneous ignition detection, Fires, Mining, Coal. See COAL, Mining, Fires, Spontaneous ignition, Detection, Gas chromatography
- GAS CHROMATOGRAPHY, Town gas. See GAS (Town) Gas chromatography
- GAS CHROMATOGRAPHY, Trimethylsilyl derivatives, Amino acids. See AMINO ACIDS, Trimethylsilyl derivatives, Gas chromatography

GAS CHROMATOGRAPHY, Valves

- Simple automatic sampling valve for gas chromatographic systems. N. Dugdale & K. Jones. *Chemistry & Industry* (14 Aug 65) p.1460-1. il.
- GAS COOLED NUCLEAR REACTORS. See NUCLEAR REACTORS, Gas cooled
- GAS DIODES, Relays. See RELAYS, Diodes, Gas

GAS DISCHARGE

Related Headings:

- PENNING DISCHARGE
PLASMA MACHINES
PLASMAS
TOWNSEND DISCHARGE
- GAS DISCHARGE, Cavities, Electrical insulating materials. See INSULATING MATERIALS, Electrical, Cavities, Gas discharge
- GAS DISCHARGE, Electrodeless, Magnetic fields**
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- GAS DISCHARGE, Hydrogen. See HYDROGEN, Gas discharge
- GAS DISCHARGE, Mercury vapour. See MERCURY, Vapour, Gas discharge
- GAS DISCHARGE, Oxygen, Ozone production. See OZONE, Production, Oxygen, Gas discharge
- GAS DISCHARGE, Sulphur hexafluoride. See HEXA-FLUORIDE, Gas discharge
- GAS DISCHARGE TUBES. See ELECTRON TUBES, Gas discharge

GAS ENGINES (Compressors) Turbocharged

- Gas engine compressor, pt.1: thermodynamic-aerodynamic combustion development [Worthington Mainliner] M. L. Land. *Engine Design & Applications*, 1 (Jun 65) p.28-35. il. refs.
- Gas engine compressor: Worthington Mainliner, pt.2: design—construction—operation. M. L. Land. *Engine Design & Applications*, 1 (Jul 65) p.28-34. il.

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- Medium-high-speed turbocharged gas engines (abstract) J. H. Gill. *Gas & Oil Power*, 61 (May/Jun 65) p.122-4
- GAS-FIRED FURNACES, Heating, Billets. See BILLETS, Heating, Furnaces, Gas-fired
- GAS-FIRED FURNACES, Melting, Casting, Camera components. See CAMERAS, Components, Casting, Melting, Furnaces, Gas-fired
- GAS-FIRED FURNACES, Melting, Copper. See COPPER, Melting, Furnaces, Gas-fired
- GAS-FIRED FURNACES, Steel manufactures. See STEEL, Manufactures, Furnaces, Gas-fired
- GAS FLOW**
Related Headings:
AIRFLOW
- GAS FLOW, Bubbles, Gas-liquid fluidised beds. See FLUIDISED BEDS, Gas-liquid, Bubbles, Gas flow
- GAS FLOW, Combustion chambers. See COMBUSTION CHAMBERS, Gases, Flow
- GAS FLOW, Combustion chambers, Boilers, Power stations. See POWER STATIONS, Boilers, Combustion chambers, Gas flow
- GAS FLOW, Cylinder heads, Engines, Motor cars. See MOTOR CARS, Engines, Cylinders, Heads, Gas flow
- GAS FLOW, Furnaces. See FURNACES, Gas, Flow
- GAS FLOW, Furnaces, Steel production. See STEEL, Production, Furnaces, Gas, Flow
- GAS FLOW, Meters**
Related Headings:
ROTAMETERS

GAS FLOW, Pipes, Annular, Heat transfer

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- GAS FLOW, Pulverised coal fired furnaces. See FURNACES, Pulverised coal fired, Gas flow

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GAS FLOW, Unsteady, Analysis, Equations

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GAS FLOW, Unsteady, Pipes, Orifice plates

Reflection of pressure waves at sharp-edged orifices.
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Flow characteristics of control valves. T. J. Black & A. Brown. *Engineering*, 220. (26 Nov 65) p.874-6. il. ref.

GAS FLOW, Viscous, Pipes, Annular

Viscous flow of a gas through an annular passageway. J. Lockey & N. Maw. *Engineer*, 219 (30 Apr 65) p.763-4. il. refs.

GAS FLOW RADIATION COUNTERS. See FLOW COUNTERS**GAS-HOLDERS, Anti-freeze equipment, Electrical**

Electrical anti-freeze installation on gasholders. G. Morton. *Gas J.*, 323 (8 Sep 65) p.263-6. il.

GAS-HOLDERS, Boosters

Keeping up the pressure. P. E. Gallaher. *Gas World*, 161 (26 Jun 65) p.803-6. il.

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Construction of Eastwood gasholder foundations. *Contract J.*, 207 (9 Sep 65) p.125-6. il.

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GAS INJECTION, Sulphur removal, Casting, Nodular iron.

See IRON, Nodular, Casting, Sulphur removal, Gas injection

GAS-LIQUID CHROMATOGRAPHY, Aqueous solutions, Butyl alcohol. See BUTYL ALCOHOL, Aqueous solutions, Gas-liquid chromatography**GAS-LIQUID CHROMATOGRAPHY, Aqueous solutions, Ethyl alcohol. See ETHYL ALCOHOL, Aqueous solutions, Gas-liquid chromatography****GAS-LIQUID CHROMATOGRAPHY, Carbohydrates, Molasses. See MOLASSES, Carbohydrates, Gas-Liquid chromatography****GAS-LIQUID CHROMATOGRAPHY, Carrier gases**

Effect of carrier-gas on gas-liquid partition. P. A. Sewell & R. Stock. *Nature*, 207 (7 Aug 65) p.618-19. il. refs.

GAS-LIQUID CHROMATOGRAPHY, Copolymers, Olefins. See OLEFINS, Copolymers, Gas-Liquid chromatography**GAS-LIQUID CHROMATOGRAPHY, Cyclamates determination, Sweeteners, Soft drinks. See DRINKS, Soft, Sweeteners, Cyclamates, Determination, Gas-Liquid chromatography****GAS-LIQUID CHROMATOGRAPHY, Detectors, Calibration**

Quantitative gas-liquid chromatographic analysis with detectors having a non-linear response. B. D. Sully & P. L. Williams. *Analyst*, 90. (Nov 65) p.643-8. il. refs.

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See BEER, Determination of fusel oil, Chromatography, Gas-liquid

GAS-LIQUID CHROMATOGRAPHY, Hexachlorocyclopentadiene. See HEXACHLOROCYCLOPENTADIENE, Gas-Liquid chromatography**GAS-LIQUID CHROMATOGRAPHY, Hydrogenated thermal decomposition products, Polyolefines. See POLYOLEFINES, Thermal decomposition, Products, Hydrogenated, Gas-Liquid chromatography****GAS-LIQUID CHROMATOGRAPHY, Injection, Equipment**

Comparison of hypodermic and pipette injection systems in gas-liquid chromatography. D. W. Grant & L. Knott. *Analyst*, 89 (Dec 64) p.801

GAS-LIQUID CHROMATOGRAPHY, Monoterpenes determination, Essential oils, Angelica archangelica. See ANGELICA ARCHANGELICA, Essential oils, Determination of monoterpenes, Gas-liquid chromatography**GAS-LIQUID CHROMATOGRAPHY, Non-volatile residues, Thermal decomposition, Atropine. See ATROPINE, Thermal decomposition, Residues, Non-volatile, Gas-Liquid chromatography****GAS-LIQUID CHROMATOGRAPHY, Residues, Chlorinated pesticides. See PESTICIDES, Chlorinated, Residues, Determination, Gas-Liquid chromatography****GAS-LIQUID EJECTORS. See EJECTORS, Gas-Liquid****GAS-LIQUID-SOLID, Fluidised beds. See FLUIDISED BEDS, Gas-liquid-solid****GAS-LIQUID SYSTEMS**

Related Headings:

BUBBLES
DROPLETS
DROPS
FOAM

GAS-LIQUID SYSTEMS, Flow, Pipes

Pressure gradient and liquid film thickness in co-current upwards flow of gas/liquid mixtures: application to film-cooler design. C. J. Shearer & R. M. Nedderman. *Chemical Engng. Science*, 20 (Jul 65) p.671-83. il. refs.

GAS-LIQUID SYSTEMS, Fluidised beds. See FLUIDISED BEDS, Gas-liquid**GAS-METAL REACTIONS, Argon shielded arc welding. See WELDING, Arc, Argon shielded, Gas-Metal reactions****GAS PACKING, Containers, Food. See FOOD, Containers, Gas packing****GAS PACKING, Powders, Milk. See MILK, Powders, Gas packing****GAS PIPETTES, Metal, Sensitivity calibration, Mass spectrometers, Inert gases. See GASES, Inert, Spectrometers, Mass, Sensitivity, Calibration, Pipettes, Metal****GAS PLATING**

Chemical vapour deposition. J. E. Sandford. *Metalworking Production*, 109 (4 Aug 65) p.44-7. il.

Commercial deposition by low-energy sputtering at 1×10^{-4} torr [Plasma Vac] *Design Electronics*, 2 (Sep 65) p.2-3. il.

Component coating by vacuum evaporation. *Metalworking Production*, 109 (11 Aug 65) p.51-3. il.

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Vacuum metallization—an alternative to electro-plating. A. E. Williams. *Metalworking Production*, 109 (27 Jan 65) p.78-9. il.

GAS PLATING, Plastics. See PLASTICS, Gas plating**GAS PLATING, Steel. See STEEL, Gas plating****GAS PRESSURE BONDING, Compaction, Metal powders. See POWDERS, Metals, Compaction, Gas pressure bonding****GAS PRESSURE BONDING, Compaction, Powders. See POWDERS, Compaction, Gas pressure bonding**

- GAS PRESSURISED ELECTRIC CABLES. See CABLES, Electric, Compressed gas
- GAS PRESSURISED LAPPED POLYTHENE ELECTRIC CABLES. See CABLES, Electric, Polythene, Lapped, Compressed gas
- GAS SHIELDED ARC WELDING. See WELDING, Arc, Gas shielded
- GAS SHIELDED ARC WELDING, Aluminium pipes. See PIPES, Aluminium, Welding, Arc, Gas shielded
- GAS SHIELDED ARC WELDING, Zirconium alloys, Plates. See PLATES, Zirconium, Alloys, Welding, Arc, Gas shielded
- GAS-SOLID FLUIDISED BEDS. See FLUIDISED BEDS, Gas-Solid
- GAS TURBINE FRIGATES. See FRIGATES, Gas turbine
- GAS TURBINE-HYDRAULIC LOCOMOTIVES. See LOCOMOTIVES, Gas turbine-hydraulic

GAS TURBINES

- Development of a small single- and two-shaft gas turbine for military applications. K. Petrie. *Instn. of Mechanical Engrs. Proc.*, 179 pt.1 no.9 (1964-65) p.343-64. il. refs.
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- Land-based gas turbines. A. W. Pope. *Chartered Mechanical Engr.*, 12 (Jan 65) p.12-14. il.
- Medium power—moderate fuel consumption: second generation Boeing turbine produces 400 bhp with 0.75 lb/bph SFC. *Engine Design & Applications*, 1 (Jun 65) p.44-5. il.

GAS TURBINES

- Related Headings:
LIFT ENGINES
TURBOFANS
TURBOJETS

GAS TURBINES—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Particular localities
Japan

Problems
Exhaust

Processes
Heat, Recovery

Technical activities
Testing
Steam injection

Components
Blades
Control systems
Heat regenerators
Fuel systems

Types
Coal fired
Natural gas-fired

Applications
Vehicles
Aircraft
Helicopters
Hovercraft
Ships

GAS TURBINES—SUBHEADINGS—Synopsis—cont.

Motor vehicles
Motor cars
Electric power generation
Alternators

GAS TURBINES, Aircraft

- Bristol Siddeley Proteus engine. K. M. Collinge. *J. of Soc. of Licensed Aircraft Engrs. & Technologists*, 3 (Sep 65) p.16-22. il.
- Engines for advanced subsonic transports. L. G. Dawson. *Flight*, 87 (7 Jan 65) p.22-3. il.
- Power plant: description of the Turbomica Astazou X turboprop and its Ratier Figeac FH76-2 propeller, with an account of their mode of operation in flight and on the ground [*Skyvan*] *Aircraft Engng.*, 37 (Jan 65) p.13-16. il.
- Rolls-Royce Dart R. Da. 7 power plant [*Hawker Siddeley H.S. 748*] P. J. Ashmole. *Aircraft Engng.*, 37 (Mar 65) p.86+. il.
- Subsonic aero gas turbines, pt.1: survey of current trends of development. R. W. Stuart Mitchell. *Engine Design & Applications*, 1 (Oct 64) p.58-60. il.
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- GAS TURBINES (Aircraft) Alloys, Creep rupture tests (High temperature) Data extrapolation
- Study of parameter techniques for the extrapolation of creep rupture properties. A. W. Mullendore, J. M. Dhosi, R. Widmer & N. J. Grant. *Instn. of Mechanical Engrs. Proc.*, 178 pt. 3A (1963/64) p.6-15-20. il. refs.
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- Some observations on the thermal-fatigue behaviour of casting-alloys for gas-turbine blading. E. Glenney & J. E. Northwood. *Foundry Trade J.*, 119 (4 Nov 65) p.607-20. il. refs.

GAS TURBINES (Aircraft) Blades, Casting, Investment
Investment casting by Centrax-Misco Ltd [*Mono Shell*]
Tooling, 19 (Jul 65) p.19+. il.

GAS TURBINES (Aircraft) Blades, Nimonic alloys, Grinding, Coolants, Filtration

Alfa-Laval Turbo Matic coolant clarifying installation at Rolls Royce. F. W. Herridge. *Machinery*, 107 (1 Sep 65) p.499-501. il.

GAS TURBINES (Aircraft) Components, Machining, Costs, Computers

Computer decides conditions for minimum cost machining [*Aero Engine Division, Rolls-Royce Ltd.*] K. M. Gardiner. *Metalworking Production*, 109 (8 Dec 65) p.61-4. il.

GAS TURBINES (Aircraft) Components, Machining, Diamond
Component machining for Rolls-Royce aero engines. *Industrial Diamond Rev.*, 25 (May 65) p.186-9. il.

GAS TURBINES (Aircraft) Components, Milling, Machines
Milling on a Hayes TM 43 Tracemaster. T. E. Weissmann. *Brit. Machine Tool Engng.*, 46 (Winter 64) p.42-8. il.

GAS TURBINES (Aircraft) Compressors, Components, Turning, Lathes

Numerically-controlled lathe employed for machining turbo-supercharger components. F. W. Heurlin. *Machinery*, 106 (6 Jan 65) p.16-17. il.

GAS TURBINES (Aircraft) Control systems

Electronic control of gas turbine engines. A. Sadler, S. Tweedy & P. J. Colburn. *J. of R. Aeronautical Soc.*, 69 (Jul 65) p.429-47. il. refs.

GAS TURBINES (Aircraft) Control systems, Fluid jet
Jets to control a jet. D. Fishlock. *New Scientist*, 28 (9 Dec 65) p.718-19. il.

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 MOTORWAYS, Glasgow
 ROADS, Glasgow
 ROADS, Town planning, Glasgow
 ROADS, Traffic, Surveys, Glasgow
 STRATHCLYDE. UNIVERSITY
 TECHNOLOGY, Glasgow
 TOWN PLANNING, Glasgow
- GLASGOW. UNIVERSITY, Chemistry education. See CHEMISTRY, Education, Universities, Glasgow
- GLASS**
 Recent studies in the physics and chemistry of glasses. R. W. Douglas. Science Progress, 53 (Jan 65) p.61-82. il.
- This stuff called glass. A. Curtis. Motor (15 Dec 65) p.44-6. il.
- GLASS**
 Related Headings:
 SILICA, Fused

GLASS—SUBHEADINGS—Synopsis—cont.

- Manufacture
 Melting
 Refining
 Cutting
 Machining
 Toughening
- Kinds of glass
 Annealed
 Expanded
 Porous
 Opal
 By material
 Borate
 Alkali borate
 Lead borate
 Thallium borate
 Calcium borosilicate
 Borosilicate
 Boron oxide
 Boron trioxide
 Silicate
 Sodium silicate
 Soda-Lime-Aluminosilicate
 Zinc borosilicate
 Lead silicate
 Lithia-Silica
 Zinc chloride
 Barium-Bismuth
 Lead-Bismuth
 Germanium-Arsenic-Selenium
 Alkali aluminogermanate
- By form
 Plate
- By purpose
 Optical
 Decorative

GLASS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Research

Archaeology

Properties

- Structure
- Electrons
- Strength
 - Deformation
 - Young's modulus
 - Photoelasticity
 - Creep
 - Viscosity
 - Viscometers

Densification

- Electrical conductivity
- Dielectric loss angle
- Permittivity
- Softening point
- Phase separation

Raw materials

Sand

Technical activities

- Analysis
- Determination of

GLASS, Alkali aluminogermanate

- Properties and structure of glasses in the system $M_2O-Al_2O_3-GeO_2$ ($M=Li, Na, K$). M. K. Murthy & B. Scroggie. Physics & Chemistry of Glasses, 6 (Oct 65) p.162-7. il. refs.

GLASS, Alkali borate, Constituents, Arsenic, Gamma irradiation, Photochemical reactions

- Photochemical reaction induced in borate glasses containing arsenic and manganese. A. Bishay & S. Arafa. Physics & Chemistry of Glasses, 6 (Aug 65) p.134-42. il. refs.

GLASS, Alkali borate, Constituents, Manganese, Gamma irradiation, Photochemical reactions

- Photochemical reaction induced in borate glasses containing arsenic and manganese. A. Bishay & S. Arafa. Physics & Chemistry of Glasses, 6 (Aug 65) p.134-42. il. refs.

GLASS, Alkali borate, Spectroscopy, Infra-red

- Interpretation of the infra-red spectra of boron oxide and alkali borate glasses. J. Krogh-Moe. Physics & Chemistry of Glasses, 6 (Apr 65) p.46-54. il. refs.

GLASS, Analysis

- Recent trends in chemical analysis. W. W. Fletcher. Glass Technology, 6 (Apr 65) p.35-9. il. refs.

GLASS, Annealed, Cracks, Tips, Blunting, Surface tension

- Blunting of cracks by surface tension. C. A. Berg. Instrn. of Mechanical Engrs. Proc., 178 pt.3A (1963/64) p.141-7. il. refs.

GLASS, Archaeology, Effect of weather, Crust layers

- Weathered crusts on ancient glass. G. Shaw. New Scientist, 27 (29 Jul 65) p.290-1. il.

GLASS, Barium-Bismuth, Thermal conductivity

Thermal conductivities of some lead and bismuth glasses.

P. F. van Velden. *Glass Technology*, 6 (Oct 65) p.166-9. refs.

GLASS, Borate, Constituents, Europium, Spectrophotometry

Absorption and fluorescence of trivalent europium in borate glasses. P. K. Gallagher, C. R. Kurkjian & P. M. Bridenbaugh. *Physics & Chemistry of Glasses*, 6 (Jun 65) p.95-103. il. refs.

GLASS, Borate, Constituents, Europium, Spectroscopy, X-ray fluorescence

Absorption and fluorescence of trivalent europium in borate glasses. P. K. Gallagher, C. R. Kurkjian & P. M. Bridenbaugh. *Physics & Chemistry of Glasses*, 6 (Jun 65) p.95-103. il. refs.

GLASS, Boron oxide, Spectroscopy, Infra-red

Interpretation of the infra-red spectra of boron oxide and alkali borate glasses. J. Krogh-Moe. *Physics & Chemistry of Glasses*, 6 (Apr 65) p.46-54. il. refs.

GLASS, Boron trioxide, Molten, Viscoelasticity, Studies, Ultrasonics

Ultrasonic viscous relaxation in molten boron trioxide. P. Macedo & T. A. Litovitz. *Physics & Chemistry of Glasses*, 6 (Jun 65) p.69-80. il. refs.

GLASS, Borosilicate, Pipes, Textile manufactures, See TEXTILES, Manufactures, Pipes, Glass, Borosilicate**GLASS, Borosilicate, Seals, See SEALS, Glass, Borosilicate****GLASS, Borosilicate, Stained, Copper salts, Microscopy, Electron**

Calculation of transmission curves of glass stained by copper and silver compounds. H. Rawson. *Physics & Chemistry of Glasses*, 6 (Jun 65) p.81-4. il. refs.

GLASS, Borosilicate, Stained, Copper salts-Silver salts, Microscopy, Electron

Calculation of transmission curves of glass stained by copper and silver compounds. H. Rawson. *Physics & Chemistry of Glasses*, 6 (Jun 65) p.81-4. il. refs.

GLASS, Borosilicate, Substrates, Microminiature circuits, Electronics, See CIRCUITS, Electronics, Micro-miniature, Substrates, Glass, Borosilicate**GLASS, Bottles, See BOTTLES, Glass****GLASS, Bottles, Beer, See BEER, Bottles, Glass****GLASS, Calcium borosilicate, Dielectric properties, Effect of titanium dioxide crystallisation**

Controlled crystallisation of titanium dioxide in Cabal and related glasses. M. Monneraye, J. Serindat & C. Jouviersma. *Glass Technology*, 6 (Aug 65) p.132-7. il. refs.

GLASS, Centrifugal pumps, See PUMPS, Centrifugal, Glass**GLASS, Containers, See CONTAINERS, Glass****GLASS, Containers, Food, See FOOD, Containers, Glass****GLASS, Containers, Storage, Fission products, Wastes, Nuclear reactors, See NUCLEAR REACTORS, Wastes, Fission products, Storage, Containers, Glass****GLASS, Creep, Torsion**

Creep properties of glass under high strain. D. M. Schlapp. *Physics & Chemistry of Glasses*, 6 (Oct 65) p.168-70. il. refs.

GLASS, Cutting, Diamond, Machines, Control systems

Mass production and accuracy in sheet glass cutting [F. G. Lankester & Son Ltd.] N. Stuckey. *Industrial Diamond Rev.*, 25 (Jul 65) p.304-6. il.

GLASS, Decorative

Decorative glass. *Glass Age*, 8 (May 65) p.34-9. il.

Designer in glass: decorative glass. *Glass Age*, 8 (Aug 65) p.36-9. il.

GLASS, Decorative, Fused

Fused glass raises the creation of decorative glass windows from the sphere of craft technology to the realms of artistic production. *Ceramics*, 16 (Feb 65) p.20-2. il.

GLASS, Deformation, Elastic, Thermal effects, Measurement, Microcalorimeters

Study of the thermal effects accompanying the deformation of glass at room temperature. C. Guillemet, M. Houdion & P. Aclouque. *Physics & Chemistry of Glasses*, 6 (Feb 65) p.1-5. il. refs.

GLASS, Densification, High pressure

Densification of glass at very high pressure. H. M. Cohen & R. Roy. *Physics & Chemistry of Glasses*, 6 (Oct 65) p.149-61. il. refs.

GLASS, Determination of arsenic (III), Reaction with iodine monochloride

Rapid method for the estimation of trivalent arsenic in glass. A. Paul. *Glass Technology*, 6 (Feb 65) p.22-5. il. refs.

GLASS, Determination of silica, Gravimetry

Rapid method for determination of silica in glass: report by the Chemical Analysis Committee of the Society. *Glass Technology*, 6 (Aug 65) p.103-6. refs.

GLASS, Determination of vanadium oxides

Isolation of vanadium oxides in glasses. G. J. Kakabadse & E. Vassiliou. *Physics & Chemistry of Glasses*, 6 (Apr 65) p.33-7. il. refs.

GLASS, Dielectric loss angle, Audio frequency, Measurement, Instruments

Apparatus for the measurement of the permittivity and loss tangent of glasses at audio and subaudio frequencies. P. M. Vince. *Proc. of Instn. of Electrical Engrs.*, 112 (Feb 65) p.432-8. il. refs.

GLASS, Electric lamps, See LAMPS, Electric, Glass**GLASS, Electrical conductivity, Effect of gamma irradiation**

Gamma-radiation-induced conductivity in glasses. V. E. Culler & H. E. Rexford. *Proc. of Instn. of Electrical Engrs.*, 112 (Jul 65) p.1462-7. il. refs.

GLASS, Electrons, Production, Irradiation, Studies, Electron spin resonance

Some elementary process in radiation—and photo-chemistry revealed by electron spin resonance. P. B. Ayscough, R. G. Collins & F. S. Dainton. *Nature*, 205 (6 Mar 65) p.965-9. il. refs.

GLASS, Electrons, Production, Photochemical, Studies, Electron spin resonance

Some elementary process in radiation—and photo-chemistry revealed by electron spin resonance. P. B. Ayscough, R. G. Collins & F. S. Dainton. *Nature*, 205 (6 Mar 65) p.965-9. il. refs.

GLASS, Expanded, Building materials

Office block: cellular glass tiles used for infill panels. [Blumenthals Ltd.] *Glass Age*, 8 (Feb 65) p.31. il.

GLASS, Expanded, Thermal insulating materials

Foamglas—cellular glass insulant. *Insulation*, 9 (Mar/Apr 65) p.88-9. il.

GLASS, Gas discharge tubes, See ELECTRON TUBES, Gas discharge, Glass**GLASS, Germanium-Arsenic-Selenium, Infra-red, Effect of oxygen**

Effect of oxygen on the infra-red transmission of Ge-As-Se glasses. J. A. Savage & S. Nielsen. *Physics & Chemistry of Glasses*, 6 (Jun 65) p.90-4. il. refs.

GLASS, Inserts, Photoelasticity, See PHOTOELASTICITY, Inserts, Glass**GLASS, Knives, Sectioning, Electron microscopy specimens, See MICROSCOPY, Electron, Specimens, Sectioning, Knives, Glass****GLASS, Lasers, See LASERS, Glass****GLASS, Lead-Bismuth, Thermal conductivity**

Thermal conductivities of some lead and bismuth glasses. P. F. van Velden. *Glass Technology*, 6 (Oct 65) p.166-9. refs.

GLASS, Lead borate, Molecular structure, Studies, Nuclear magnetic resonance

Nuclear magnetic resonance investigations of compounds and glasses in the systems $\text{PbO-B}_2\text{O}_3$ and PbO-SiO_2 . M. Leventhal & P. J. Bray. *Physics and Chemistry of Glasses*, 6 (Aug 65) p.113-25. il. refs.

GLASS, Lead silicate, Light absorption, Effect of gamma irradiation

Effect of gamma radiation on the optical absorption of lead silicate glass. R. S. Barker, E. A. G. McConkey & D. A. Richardson. *Physics & Chemistry of Glasses*, 6 (Feb 65) p.24-9. il. refs.

GLASS, Lead silicate, Molecular structure, Studies, Nuclear magnetic resonance

Nuclear magnetic resonance investigations of compounds and glasses in the systems $\text{PbO-B}_2\text{O}_3$ and PbO-SiO_2 . M. Leventhal & P. J. Bray. *Physics and Chemistry of Glasses*, 6 (Aug 65) p.113-25. il. refs.

GLASS, Lithia-Silica, Crystallisation, Effect of temperature
Crystallisation kinetics in some silicate glasses, pt.2: study of crystallisation kinetics in the system $\text{Li}_2\text{O-SiO}_2$ (summary) J. G. Morley. *Glass Technology*, 6 (Jun 65) p.77-89. il. refs.**GLASS, Lithia-Silica, Glass-Ceramics production. See GLASS-CERAMICS, Production, Glass, Lithia-Silica****GLASS, Machining, Diamond**

Glass—from shelves to shopfronts [Glass (Coventry) Ltd.] *Industrial Diamond Rev.*, 25 (Jun 65) p.241-3. il.
How to choose a glass grinder. M. Hornstein. *Industrial Diamond Rev.*, 25 (Sep 65) p.396-7. il.

GLASS, Machining, Lathes

Heathway glass working lathes. *Engineering*, 199 (14 May 65) p.631-2. il.

GLASS, Manufactures

Need to invest in manpower. Sir John Hunter. *Glass*, 42 (Feb 65) p.74-5

GLASS, Manufactures, Education

Technical colleges. *Glass*, 42 (Oct 65) p.490-1
Training Board. *Glass*, 42 (Oct 65) p.491+

Training of staff for the glass industry. E. Plumat. *Glass*, 42 (Nov 65) p.537-42

GLASS, Manufactures, Education, Universities

University of Sheffield, Department of Glass Technology. *Glass*, 42 (Oct 65) p.488-90. il.

GLASS, Manufactures, Electrical equipment

Supply and application of electricity to the glass industry. M. G. Gibbs. *Glass Technology*, 6 (Aug 65) p.115-21. il. refs.

GLASS, Manufactures, Float process

Pilkington's float glass. *Engineering*, 199 (9 Apr 65) p.457-8. il.

GLASS, Manufactures, Fuels

Some aspects of the fuel technology of glassworking. V. D. Long. *Glass Technology*, 6 (Aug 65) p.124-31. il. refs.

GLASS, Manufactures, India

Glass and ceramic industries in India. C. Kakodkar. *Ceramics*, 16 (Aug 65) p.23-4. il.

GLASS, Manufactures, Museums

Museum [Pilkington Glass Museum, St. Helens.] *Glass Age*, 8 (Feb 65) p.40-4. il.
Museum of glass [Pilkington Brothers Ltd.] *Engineer*, 219 (30 Apr 65) p.767-9. il.

GLASS, Manufactures, Netherlands

Dutch glass industry. *Glass*, 42 (Jun 65) p.280. il.

GLASS, Manufactures, Safety

Accident prevention in the glass industry. G. C. Ward. *Brit. J. of Industrial Safety*, 6 (Autumn 65) p.294-6. il.

GLASS, Melting, Chemical reactions

Differential thermal analysis, differential thermogravimetric analysis, and high temperature microscopy of reactions between the major components of a sheet glass batch. F. W. Wilburn, S. A. Metcalfe & R. S. Warburton. *Glass Technology*, 6 (Aug 65) p.107-14. il. refs.

GLASS, Melting, Furnaces

Assessment of furnace performance. *Glass Technology*, 6 (Oct 65) p.141-5. il. refs.

Some recent developments in furnace design and operation. R. Abel. *Glass Technology*, 5 (Dec 64) p.212-15. il. ref.

GLASS, Melting, Furnaces, Burners

New developments in glass furnace heating. T. Ward. *Glass Technology*, 6 (Apr 65) p.31-4. il. refs.

GLASS, Melting, Furnaces, Fuel

Comparison of some units for expressing the melting rate and fuel usage of glass-melting furnaces. R. G. Newton. *Glass Technology*, 6 (Feb 65) p.3-4. il.

GLASS, Melting, Furnaces, Oil-fired, Burners, Nozzles

Conversion of a furnace to oil firing. G. P. Eadie & F. Goodwin. *Glass Technology*, 6 (Feb 65) p.5-13. il.

GLASS, Melting, Steam plant, Waste heat recovery

Waste heat boilers for the glass industry [U.S.A.] *Engng & Boiler House Rev.*, 80 (Jul 65) p.255-7. il.

GLASS, Melting, Tanks

Problems of modern glass melting, pt.1. K. Bach & others. *Glass*, 42 (Jan 65) p.13-18. il. refs.

Problems of modern glass melting, pt.2. K. Bach & others. *Glass*, 42 (Feb 65) p.65-9. il. refs.

GLASS, Melting, Tanks, Refractories, Corrosion

Evaluation of the corrosion of refractory materials by molten glass. T. Lakajos & B. Simmingsköld. *Glass*, 42 (Sep 65) p.435+ il.

GLASS, Melting, Tanks, Refractories, Corrosion, Tests

Summary of test results from co-operative corrosion tests. Refractories Committee of the Society. *Glass Technology*, 5 (Dec 64) p.207-11. refs.

GLASS, Melting, Tanks, Refractories, Electrocast, Analysis

Determination of some trace impurities in electrocast refractories. T. Grollier-Baron & A. Penez. *Trans. of Brit. Ceramic Soc.*, 64 (Nov 65) p.567-75. il. refs.

GLASS, Melting, Tanks, Refractories, Zircon, Corrosion

Laboratory investigation into the effect of glass composition and glass temperature on the corrosion of zircon refractories. F. H. Aldred, T. C. Shutt & W. J. Steen. *Glass Technology*, 6 (Feb 65) p.14-16. il. refs.

GLASS, Microelectrodes. See MICROELECTRODES, Glass**GLASS, Opal, Melting, Tanks, Refractories, Corrosion**

Corrosion of fusion cast and high alumina refractories by white opal glass. R. D. Wright. *Glass Technology*, 6 (Oct 65) p.146-52. il. refs.

GLASS, Opal, Tempering, Kilns, Gas-fired

Auto-controlled gas-fired kiln tempers glass. *Instrument & Control Engng.* (Jul 65) p.10-14. il.

GLASS, Optical, Barium borosilicate, Crystallisation, Effect of lanthanum oxide

Influence of La_2O_3 and ThO_2 on the crystallisation behaviour of optical glasses. R. Katzschmann. *Glass Technology*, 6 (Oct 65) p.156-60. il. refs.

GLASS, Optical, Barium borosilicate, Crystallisation, Effect of thorium dioxide

Influence of La_2O_3 and ThO_2 on the crystallisation behaviour of optical glasses. R. Katzschmann. *Glass Technology*, 6 (Oct 65) p.156-60. il. refs.

GLASS, Optical, Spectrophotometry

Accurate measurement of the spectral transmission of optical glass. D. W. Harper. *J. of Scientific Instruments*, 42 (Oct 65) p.746-8. il. ref.

GLASS, Packaging. See PACKAGING, Cases

GLASS, Permittivity, Audio frequency, Measurement, Instruments

Apparatus for the measurement of the permittivity and loss tangent of glasses at audio and subaudio frequencies. P. M. Vince. *Proc. of Inst. of Electrical Engrs.*, 112 (Feb 65) p.432-8. il. refs.

GLASS, Phase separation

Initial stages of phase separation in glasses. J. W. Cahn & R. J. Charles. *Physics & Chemistry of Glasses*, 6 (Oct 65) p.181-91. il. refs.

GLASS, Photoelasticity, Instruments

Recording photoelastic stress analyser. J. W. Hunt, D. A. Dalby & S. Bateson. *Technique (Muirhead)* 19 (Jan 65) p.5-9. il. refs.

GLASS, Pipes, Bottling, Alcoholic beverages. See

ALCOHOLIC BEVERAGES, Bottling, Pipes, Glass

GLASS, Pipes, Distillation, Spirits. See SPIRITS, Distillation, Pipes, Glass

GLASS, Pipes, Storage, Alcoholic beverages. See

ALCOHOLIC BEVERAGES, Storage, Pipes, Glass

GLASS, Plate, Bending

Plate glass and statics: problems of bending strength and loading. *Glass Age*, 8 (Aug 65) p.48+

GLASS, Plate, Doors, Halls of residence. See HALLS OF RESIDENCE, Doors, Glass, Plate

GLASS, Plate, Edges, Diamond machining

Almost all European plate-glass edges are now diamond machined. C. Gintz. *Industrial Diamond Rev.*, 25 (Feb 65) p.61-3. il.

GLASS, Plate, Transport, Motor vehicles

Transport of plate glass. S. F. Page. *Automotive Body Engrg.*, 135 (Apr 65) p.19. il.

Transporting plate glass. *Mass Production*, 41 (Apr 65) p.54-5. il.

GLASS, Porous

Porous glass, a neglected material of unique properties. B. Mooney & T. P. Jones. *Chemistry & Industry* (8 May 65) p.796-7. il. refs.

GLASS, Porous, Columns, Chromatography. See CHROMATOGRAPHY, Columns, Glass, Porous

GLASS, Refining, Furnaces, Repairs

Refining glass furnace shatters all records. A report from Key Glassworks Ltd. & Lax & Shaw Ltd. *Glass*, 42 (Sep 65) p.442-3

GLASS, Research

United Glass Limited glass research and development centre at St. Albans. *Glass*, 42 (Apr 65) p.171-4. il.

GLASS, Ring ovens. See RING OVENS, Glass

GLASS, Sand, Production

Californian glass sand plant [International Pipe and Ceramics Corporation] *Mining & Minerals Engrg.*, 1 (Feb 65) p.210-12. il.

GLASS, Sheets. See SHEETS, Glass

GLASS, Silicate, Crystallisation, Effect of temperature,**Studies, Microfurnaces**

Crystallisation kinetics in some silicate glasses, pt.1: apparatus for the direct measurement of crystal growth at high temperatures (summary) J. G. Morley. *Glass Technology*, 6 (Jun 65) p.69-76. il. refs.

GLASS, Silicate, Phase separation, Metastable

Controlled phase separation due to metastable liquid immiscibility in simple silicate systems. B. Phillips & R. Roy. *Physics & Chemistry of Glasses*, 5 (Dec 64) p.172-5. il. refs.

GLASS, Silicate, Young's modulus, Calculation

Calculation of Young's modulus of elasticity from composition of simple and complex silicate glasses. C. J. Phillips. *Glass Technology*, 5 (Dec 64) p.216-23. il. refs.

GLASS, Soda-Lime-Aluminosilicate, Sodium diffusion

Sodium diffusion in soda-lime-aluminosilicate glasses.

E. L. Williams & R. W. Heckman. *Physics & Chemistry of Glasses*, 5 (Dec 64) p.166-71. il. refs.

GLASS, Soda-Lime-Silica, Rods. See RODS, Glass, Soda-Lime-Silica

GLASS, Sodium silicate, Phase separation

Study of phase separation and devitrification products in glasses of the binary system $\text{Na}_2\text{O-SiO}_2$. T. L. Tran. *Glass Technology*, 6 (Oct 65) p.161-5. il. refs.

GLASS, Sodium silicate, Sodium ions, Diffusion-resistivity correlation, Nernst-Einstein relation

Diffusion and electrical conductivity of sodium ions in sodium silicate glasses. Y. Haven & B. Verkerk. *Physics & Chemistry of Glasses*, 6 (Apr 65) p.38-45. il. refs.

GLASS, Softening point, Determination, Instruments

Softening point measurement of glass, ceramics and plastics [Materiaphone] *Chemical Processing*, 11 (Mar 65) p.54-5. il.

GLASS, Spheres. See SPHERES, Glass

GLASS, Stained, Exhibition buildings. See EXHIBITION BUILDINGS, Glass, Stained

GLASS, Stained, Heraldry. See HERALDRY, Glass, Stained

GLASS, Stained, Windows, Churches. See CHURCHES, Windows, Glass, Stained

GLASS, Structure

Statistical model of polymerisation/depolymerisation relationships in silicate melts and glasses. E. D. Lacy. *Physics & Chemistry of Glasses*, 6 (Oct 65) p.171-80. il. refs.

GLASS, Substrates, Metal oxide film resistors. See RESISTORS, Metal oxide film, Substrates, Glass

GLASS, Substrates, Vacuum deposition, Polythene film. See FILM, Polythene, Vacuum deposition, Substrates, Glass

GLASS, Thallium borate, Studies, X-rays, Diffraction

X-ray study of thallium borate glasses. J. Krogh-Moe & H. Jurine. *Physics & Chemistry of Glasses*, 6 (Feb 65) p.30-1. il. refs.

GLASS, Toughening, Stresses

Factors affecting-stress formation in glass during the toughening process. J. R. Beattie. *Aircraft Engrg.*, 36 (Dec 64) p.392-5. il. refs.

GLASS, Vials, Antibiotics. See ANTIBIOTICS, Vials, Glass

GLASS, Viscometers

Penetration viscometer. R. W. Douglas, W. L. Armstrong, J. P. Edwards & D. Hall. *Glass Technology*, 5 (Apr 65) p.52-5. il. refs.

GLASS, Windows, Aircraft. See AIRCRAFT, Windows, Glass

GLASS, Windows, Hospitals. See HOSPITALS, Windows, Glass

GLASS, Young's modulus, Effect of heat treatment

Fundamental investigation into the effects of heat-treatment on the mechanical properties of glass. M. Lovatt. *Glass*, 42 (Aug 65) p.393-5. il. refs.

GLASS, Zinc borosilicate, Phase separation, Studies, Young's modulus-refractive index correlation, Effect of heat treatment

Phase separation in glass related to mechanical properties: studies in the variation of refractive index with Young's modulus. *Laboratory Practice*, 14 (Apr 65) p.469+. il. refs.

GLASS, Zinc chloride, Thermal expansion, Volume relaxation, Equilibria

Volume relaxation in zinc chloride glass. M. Goldstein & M. Nakonecznyj. *Physics & Chemistry of Glasses*, 6 (Aug 65) p.126-33. il. refs.

GLASS BONDED STRUCTURAL CERAMICS. See CERAMICS, Structural, Bonded, Glass

GLASS-CERAMICS, Fracture, Surfaces, Electron microscopy

Electron microscopy of fractured glass-ceramics. I. M. Stewart. *Glass Technology*, 6 (Oct 65) p.153-5. il. refs.

GLASS-CERAMICS, Heat regenerators, Gas turbines. See GAS TURBINES, Heat regenerators, Glass-Ceramics

GLASS-CERAMICS, Lead borosilicate, Nucleated, Titanium dioxide, Lead titanate, Metastable cubic phase, Formation
Metastable cubic form of lead titanate observed in titania nucleated glass ceramics. F. W. Martin. *Physics & Chemistry of Glasses*, 6 (Aug 65) p.143-6. il. refs.

GLASS-CERAMICS, Production, Blast furnace slags
Slagceram: new constructional material [BISRA] *Ceramics*, 16 (Sep 65) p.22-3. il.

Slagceram—new constructional material [BISRA] *Steel Times*, 190 (25 Jun 65) p.899-900

GLASS-CERAMICS, Production, Glass, Lithia-Silica, Phase separation, Catalysts, Phosphorus pentoxide
Phase separation and crystallisation in $\text{Li}_2\text{O-SiO}_2$ and $\text{Li}_2\text{O-SiO}_2\text{-P}_2\text{O}_5$ glasses. S. V. Phillips & P. W. McMillan. *Glass Technology*, 6 (Apr 65) p.46-51. il. refs.

GLASS COATED SILICON, Microminiature circuit components.
See **CIRCUITS, Electronics, Microminiature, Components, Silicon, Coated, Glass**

GLASS FIBRE, Ear protectors. See **EAR PROTECTORS, Glass fibre**

GLASS FIBRE, Fabrics. See **FABRICS, Glass fibre**

GLASS FIBRE, Fabrics, Filters, Scrubbing, Gases,
Magnesium oxide production. See **MAGNESIUM OXIDE, Production, Gases, Scrubbing, Filters, Fabrics, Glass**

GLASS FIBRE, Manufactures, Russia

Russia: problems of producing quality glass fibres in bulk not fully overcome. *Man-Made Textiles*, 42 (Jun 65) p.38-9

GLASS FIBRE, Optics. See **FIBRE OPTICS**

GLASS FIBRE, Pipes, Reverse osmosis, Conversion, Sea water. See **SEA, Water, Conversion, Reverse osmosis, Pipes, Glass fibre**

GLASS FIBRE-ACRYLIC PLASTICS. See **ACRYLIC PLASTICS-GLASS FIBRE**

GLASS FIBRE-BALSAWOOD, Hulls, Motor boats. See **BOATS, Motor, Hulls, Balsawood-Glass fibre**

GLASS FIBRE-EPOXY RESIN. See **EPOXY RESIN-GLASS FIBRE**

GLASS FIBRE-EPOXY RESIN, Cases, Engines, Solid fuelled rockets. See **ROCKETS, Solid fuelled, Engines, Cases, Epoxy resin-Glass fibre**

GLASS FIBRE-EPOXY RESIN, Models, Aircraft. See **AIRCRAFT, Models, Epoxy resin-Glass fibre**

GLASS FIBRE-EPOXY RESIN, Printed circuits, Checking equipment, Electronic systems, Aircraft. See **AIRCRAFT, Electronic systems, Checking equipment, Circuits, Printed, Epoxy resin-Glass fibre**

GLASS FIBRE-EPOXY RESIN, Rocket components. See **ROCKETS, Components, Epoxy resin-Glass fibre**

GLASS FIBRE-NYLON. See **NYLON-GLASS FIBRE**

GLASS-FIBRE NYLON 11. See **NYLON 11-GLASS FIBRE**

GLASS FIBRE-NYLON 66. See **NYLON 66-GLASS FIBRE**

GLASS FIBRE-POLYESTER. See **POLYESTER-GLASS FIBRE**

GLASS FIBRE-POLYESTER, Boats. See **BOATS, Polyester-Glass fibre**

GLASS FIBRE-POLYESTER, Bodies, Refrigerated commercial vehicles. See **VEHICLES, Commercial, Refrigerated, Bodies, Polyester-Glass fibre**

GLASS FIBRE-POLYESTER, Interior decoration, Office buildings. See **OFFICE BUILDINGS, Interior decoration, Polyester-Glass fibre**

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STRAIN AGEING

SURFACE HARDENING

HARDENING, Flame. See FLAME HARDENING**HARDENING, Iron ores, Pellets. See PELLETS, Iron ores, Hardening****HARDENING, Metals. See METALS, Hardening****HARDENING, Mild steel. See STEEL, Mild, Hardening****HARDENING, Precipitation, Face centred cubic metals. See METALS, Face centred cubic, Hardening, Precipitation****HARDENING, Single crystals, Aluminium. See ALUMINIUM, Crystals, Single, Hardening****HARDENING, Strain, Dislocations, Single crystals, Iron, Strips. See STRIPS, Iron, Crystals, Single, Dislocations, Strain hardening****HARDENING, Strain, Effect on collapse load, Structures. See STRUCTURES, Collapse load, Effect of strain hardening****HARDENING, Strain, Face centred cubic metals. See METALS, Face centred cubic, Strain hardening****HARDENING, Strain, Single crystals, Copper. See COPPER, Crystals, Single, Strain hardening****HARDENING, Teeth, Gears. See GEARS, Teeth, Hardening****HARDFACING**Pack cementation provides high temperature coatings. W. R.
Aves & G. M. Ecord. Metalworking Production, 109
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Related Headings:

BRINELL HARDNESS NUMBER

INDENTATION

MICROINDENTATION

HARDNESS, Annealed steel, Sheets. See SHEETS, Steel, Annealed, Hardness

HARDNESS, Coal face, Coal mining. See **COAL**, Mining, Face hardness
HARDNESS, Crystals, Alkali halides. See **ALKALI HALIDES**, Crystals, Hardness
HARDNESS, Effect on fatigue cracks, Aluminium alloys, Sheets. See **SHEETS**, Aluminium alloy, Cracks, Fatigue, Effect of hardness

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HARDNESS, Rubber. See **RUBBER**, Hardness
HARDNESS, Steel, Strips. See **STRIPS**, Steel, Hardness
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 HOSPITALS, Harlow

HARMONIC AMPLIFIERS, Cyclotron frequency, Electron beams. See **ELECTRON BEAMS**, Cyclotron frequency, Amplifiers, Harmonic

HARMONIC AMPLIFIERS, Cyclotron frequency, Plasmas. See **PLASMAS**, Cyclotron frequency, Amplifiers, Harmonic

HARMONIC ANALYSERS, Mechanical, Oscillation, Rockets. See **ROCKETS**, Oscillations, Harmonic analysers, Mechanical

HARMONIC ANALYSIS, Performance determination, Induction motors. See **ELECTRIC MOTORS**, Induction, Performance, Determination, Harmonic analysis

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HARROW
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HARTLEY
 See VILLAGE PLANNING, Hartley
HARVESTERS, Combine. See **COMBINE HARVESTERS**
HARVESTERS, Forage. See **FORAGE HARVESTERS**
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HAZE, Beer. See BEER, Haze**HAZE, Chill, Beer. See BEER, Haze, Chill****HAZELWOOD**

- See
 POWER STATIONS, Hazelwood

HEAD-UP DISPLAY UNITS, Instruments, Aircraft. See

AIRCRAFT, Instruments, Display units, Head-up

HEAD-PRESSURE RELATIONSHIPS, Liquids, Columns. See

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HEADPHONES, Connecting circuits

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RECORDERS, Replay circuits (Headphones)

HEADPHONES, Stereophonic sound reproduction. See

SOUND, Reproduction, Stereo, Headphones

HEADSTOCKS, Centre lathes. See LATHES, Centre, Headstocks**HEALTH, Industrial. See INDUSTRIAL HEALTH****HEALTH, Industrial, Aromatic amines production. See**

AMINES, Aromatic, Production, Industrial health

HEALTH, Industrial, Beta radiation. See BETA RADIATION, Industrial health**HEALTH, Industrial, Building. See BUILDING, Industrial health****HEALTH, Industrial, Chemical engineering. See CHEMICAL ENGINEERING, Industrial health****HEALTH, Industrial, Driving, Commercial vehicles. See**

VEHICLES, Commercial, Driving, Industrial health

HEALTH, Industrial, Neutrons. See NEUTRONS, Industrial health**HEALTH, Industrial, Pottery manufactures. See POTTERY, Manufactures, Industrial health****HEALTH, Industrial, Printing. See PRINTING, Industrial health****HEALTH, Industrial, Radioactivity. See RADIOACTIVITY, Industrial health****HEALTH, Industrial, Solvents, Paint. See PAINT, Solvents, Industrial health****HEALTH CENTRES**

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HEALTH CENTRES

Related Headings:

SURGERIES

HEALTH CENTRES, Ealing, Acton

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HEAT

Related Headings:

TEMPERATURE

THERMAL

THERMODYELECTRIC EFFECT

THERMOELECTRICITY

HEAT-SUBHEADINGS-Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Ergonomics

Tolerance

Transfer

Exchangers

Conduction

Flowmeters

Regenerators

Recovery

Storage

Pumps

Applications

Treatment

HEAT, Conduction

Related Headings:

THERMAL CONDUCTIVITY

HEAT, Conduction, Analogues, Networks, Electrical

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HEAT, Exchangers, Design

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HEAT, Exchangers, Design, Computers

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HEAT, Exchangers, Liquid-liquid contact

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HEAT, Exchangers, Milk pasteurisation. See MILK, Pasteurisation, Heat exchangers

HEAT, Exchangers (Nuclear Power stations) Housings, Drilling, Machines, Control systems

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HEAT, Exchangers, Soldering

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HEAT, Exchangers, Soldering, Fluxes

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HEAT, Latent, Vaporisation. See VAPORISATION, Heat, Latent

HEAT, Liberation, Fluorescent lamps. See LAMPS, Fluorescent, Heat liberation

HEAT, Liberation, Orthogonal machining. See MACHINING, Orthogonal, Heat liberation

HEAT, Loss, Ducts, Air conditioning. See AIR CONDITIONING, Ducts, Heat loss

HEAT, Loss, Electrical conductors, Cryostats, Helium. See HELIUM, Cryostats, Electrical conductors, Heat loss

HEAT, Loss, Heating, Buildings. See BUILDINGS, Heating, Heat loss

HEAT, Loss, Underground pipes, District heating. See DISTRICT HEATING, Pipes, Underground, Heat loss

HEAT, Measurement

Related Headings:
CALORIMETERS
CALORIMETRY

HEAT, Methyl alcohol, Immersion, Activated charcoal. See CHARCOAL, Activated, Immersion (Methyl alcohol) Heat

HEAT, Methyl alcohol, Immersion, Carbon black. See CARBON BLACK, Immersion (Methyl alcohol) Heat

HEAT, Pulses, Thermal diffusivity determination, Irradiated ceramics, Nuclear reactors. See NUCLEAR REACTORS, Ceramics, Irradiated, Thermal diffusivity, Determination, Heat pulses

HEAT, Pulses, Thermal diffusivity determination, Irradiated graphite, Nuclear reactors. See NUCLEAR REACTORS, Graphite, Irradiated, Thermal diffusivity, Determination, Heat pulses

HEAT, Pumps

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HEAT, Pumps, Maintenance

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HEAT, Pumps, Water, Swimming baths. See SWIMMING, Baths, Water, Heat pumps

HEAT, Radiation

Related Headings:
EMISSION
INFRA-RED RADIATION
RADIOMETERS

HEAT, Recovery

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HEAT, Recovery, Boilers

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HEAT, Recovery, Cooling, Fumes, Oxygen process, Steel production. See STEEL, Production, Oxygen process, Fumes, Cooling, Waste heat recovery

HEAT, Recovery, Effluents, Dyeing, Yarns. See YARNS, Dyeing, Effluents, Waste heat recovery

HEAT, Recovery, Engines. See ENGINES, Heat recovery

HEAT, Recovery, Exhaust, Diesel engines. See DIESEL ENGINES, Exhaust, Waste heat recovery

HEAT, Recovery, Gas turbines. See GAS TURBINES, Heat, Recovery

HEAT, Recovery, Gas turbines, Alternators. See ALTERNATORS, Gas turbines, Waste heat recovery

HEAT, Recovery, Milk processing. See MILK, Processing, Heat, Recovery

HEAT, Recovery, Refining, Petroleum. See PETROLEUM, Refining, Waste heat recovery

HEAT, Recovery, Ships. See SHIPS, Waste heat recovery

HEAT, Recovery, Steam plant. See STEAM, Plant, Waste heat recovery

HEAT, Recovery, Steam plant, Melting, Glass. See GLASS, Melting, Steam plant, Waste heat recovery

HEAT, Recovery, Vapours, Solvents, Ovens, Stoving, Paint. See PAINT, Stoving, Ovens, Solvents, Vapours, Waste heat recovery

HEAT, Reddening, Tannins. See TANNINS, Reddening, Heat

HEAT, Regenerators (Gas turbines) Glass-Ceramics

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HEAT, Regenerators, Open hearth furnaces. See FURNACES, Open hearth, Heat regenerators

HEAT, Resistance, Chromium-Steel. See STEEL-CHROMIUM, Heat resistance

HEAT, Resistance, Ethylene-propylene rubber. See ETHYLENE-PROPYLENE, Rubber, Heat resistance

HEAT, Resistance, Polymers. See POLYMERS, Heat resistance

HEAT, Resistance, Viton. See VITON, Heat resistance

HEAT, Sealing, Packaging, Thermoplastic film. See FILM, Thermoplastics, Packaging, Sealing, Heat

HEAT, Setting, Elastic terylene fabrics. See FABRICS, Terylene, Elastic, Heat setting

HEAT, Setting, Lasting, Chrome leather, Uppers, Shoes. See SHOES, Uppers, Leather, Chrome, Lasting, Setting, Heat

HEAT, Setting, Polyester fibres. See POLYESTER FIBRES, Setting, Heat

HEAT, Sinks, Electronic equipment. See ELECTRONIC EQUIPMENT, Heat sinks

HEAT, Sinks, Power transistors. See TRANSISTORS, Power, Heat sinks

HEAT, Sinks, Silicon controlled rectifiers. See RECTIFIERS, Silicon controlled, Heat sinks

HEAT, Sorption, Moisture, Terylene, Fabrics, Clothing. See CLOTHING, Fabrics, Terylene, Moisture, Sorption, Heat

HEAT, Sorption, Moisture, Wool, Fabrics, Clothing. See CLOTHING, Fabrics, Woollen, Moisture, Sorption, Heat

HEAT, Sterilisation. See STERILISATION, Heat

HEAT, Sterilisation, Air. See AIR, Sterilisation, Heat

HEAT, Sterilisation, Water. See WATER, Sterilisation, Heat

HEAT, Tolerance, Ergonomics

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HEAT, Tolerance, Structures, Supersonic aircraft. See AIRCRAFT, Supersonic, Structures, Heat tolerance

HEAT, Transfer

Related Headings:

- CONVECTION
- COOLING
- COOLING SYSTEMS
- RADIATORS
- THERMAL CONDUCTIVITY

HEAT, Transfer, Annular pipes, Gas flow. See GAS FLOW, Pipes, Annular, Heat transfer

HEAT, Transfer, Boiling. See BOILING, Heat transfer

HEAT, Transfer, Cans, Fuel elements, Magnox reactors. See NUCLEAR REACTORS, Magnox, Fuel elements, Cans, Heat transfer

HEAT, Transfer, Carbon dioxide, Reaction with graphite moderators, Gas cooled nuclear reactors. See NUCLEAR REACTORS, Gas cooled, Moderators, Graphite, Reaction with carbon dioxide, Heat transfer

HEAT, Transfer, Chain-grates, Stoking, Economic boilers. See BOILERS, Economic (Stoking, Chain-grates) Heat transfer

HEAT, Transfer, Chemical reactions, Porous catalysts. See CATALYSTS, Porous, Chemical reactions, Heat transfer

HEAT, Transfer, Clusters, Rods, Fuel elements, Gas cooled nuclear reactors. See NUCLEAR REACTORS, Gas cooled, Fuel elements, Rods, Clusters, Heat transfer

HEAT, Transfer, Condensation, Vapours, Ethyl alcohol. See ETHYL ALCOHOL, Vapours, Condensation, Heat transfer

HEAT, Transfer, Coolants, Combustion chambers, Engines, Liquid fuelled rockets. See ROCKETS, Liquid fuelled, Engines, Combustion chambers, Coolants, Heat transfer

HEAT, Transfer, Cooling systems, Liquid metal cooled fast reactors. See NUCLEAR REACTORS, Fast, Liquid metal cooled, Cooling systems, Heat transfer

HEAT, Transfer, Cryogenics

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HEAT, Transfer, Cylinders, Steam engines. See STEAM, Engines, Cylinders, Heat transfer

HEAT, Transfer, Diesel engines. See DIESEL ENGINES, Heat transfer

HEAT, Transfer, Effect on mass transfer, Rectification, Distillation. See DISTILLATION, Rectification, Mass transfer, Effect of heat transfer

HEAT, Transfer, Equipment, Materials

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HEAT, Transfer, Feeder heads, Casting, Steel, Ingots. See INGOTS, Steel, Casting, Feeder heads, Heat transfer

HEAT, Transfer, Flames, Gas-fired furnaces. See FURNACES, Gas-fired, Flames, Heat transfer

HEAT, Transfer, Flow, Spheres. See SPHERES, Flow, Heat transfer

HEAT, Transfer, Flue gas. See FLUE GAS, Heat transfer

HEAT, Transfer, Fluids

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HEAT, Transfer, Gas-Solid fluidised beds. See FLUIDISED BEDS, Gas-Solid, Heat transfer

HEAT, Transfer, Hydrocarbons, Flames. See FLAMES, Hydrocarbons, Heat transfer

HEAT, Transfer, Interphase, Phase resistances

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HEAT, Transfer, Lubricating oils. See LUBRICATING OILS, Heat transfer

HEAT, Transfer, Metal slabs. See SLABS, Metal, Heat transfer

HEAT, Transfer, Moulds, Continuous casting, Steel. See STEEL, Casting, Continuous, Moulds, Heat transfer

HEAT, Transfer, Nozzles, Engines, Solid fuelled rockets. See ROCKETS, Solid fuelled, Engines, Nozzles, Heat transfer

HEAT, Transfer, Pipes, Cooling systems, Steam generating water cooled reactors. See NUCLEAR REACTORS, Water cooled, Steam generating, Cooling systems, Pipes, Heat transfer

HEAT, Transfer, Pressure gradient, Couette flow. See COUETTE FLOW, Pressure gradient, Heat transfer

HEAT, Transfer, Simulators, Hydraulic

Hydraulic iterative device for one-dimensional heat flow studies. D. W. Stops. *J. of Scientific Instruments*, 42 (Apr 65) p.263-4. il. refs.

HEAT, Transfer, Steam condensers. See **STEAM, Condensers, Heat transfer**

HEAT, Transfer, Supersonic parallel diffusers. See **DIFFUSERS, Supersonic, Parallel, Heat transfer**

HEAT, Transfer, Turbulent flow, Oil-Water. See **OIL-WATER, Flow, Turbulent, Heat transfer**

HEAT, Transfer, Vertical plates, Flow, Liquid films. See **FILMS, Liquid, Flow, Plates, Vertical, Heat transfer**

HEAT, Transfer, Walls, Buildings. See **BUILDINGS, Walls, Heat transfer**

HEAT, Transfer, Water. See **WATER, Heat transfer**

HEAT, Transfer, Water cooled pistons, Diesel engines. See **DIESEL ENGINES, Pistons, Water cooled, Heat transfer**

HEAT, Transfer, Windows. See **WINDOWS, Heat transfer**

HEAT, Treatment

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Some basic principles of heat treatment. W. S. Owen. *Engrs' Digest*, 26 (Feb 65) p.101-7. il. refs.

HEAT, Treatment

Related Headings:

ANNEALING

HARDENING

QUENCHING

STRESS RELIEVING

TEMPERING

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HEAT, Treatment, Atmospheres

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HEAT, Treatment, Effect on hydrochloric acid corrosion, Silicon-Carbon-Iron. See **IRON-CARBON-SILICON, Corrosion (Hydrochloric acid) Effect of heat treatment**

HEAT, Treatment, Effect on photoconductivity, Cadmium sulphide. See **CADMIUM SULPHIDE, Photoconductivity, Effect of heat treatment**

HEAT, Treatment, Effect on photoluminescence, Cadmium sulphide. See **CADMIUM SULPHIDE, Photoluminescence, Effect of heat treatment**

HEAT, Treatment, Effect on Young's modulus, Glass. See **GLASS, Young's modulus, Effect of heat treatment**

HEAT, Treatment, Effect on Young's modulus—Refractive index correlation, Phase separation studies, Zinc borosilicate glass. See **GLASS, Zinc borosilicate, Phase separation, Studies, Young's modulus—Refractive index correlation, Effect of heat treatment**

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HEAT, Treatment, Self-tapping screws. See **SCREWS, Self-tapping, Heat treatment**

HEAT, Treatment, Sintered powder metallurgy, Iron. See **IRON, Powder metallurgy, Sintered, Heat treatment**

HEAT, Treatment, Sintered powder metallurgy, Steel. See **STEEL, Powder metallurgy, Sintered, Heat treatment**

HEAT, Treatment, Solution, Precipitates, Austenitic stainless steel. See **STEEL, Stainless, Austenitic, Precipitates, Solution, Heat treatment**

HEAT, Treatment, Steel. See **STEEL, Heat treatment**

HEAT, Treatment, Steel strips. See **STRIPS, Steel, Annealing**

HEAT, Treatment, Steel—Chromium—Molybdenum—Nickel, Forgings. See **FORGINGS, Steel—Chromium—Molybdenum—Nickel, Heat treatment**

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HEAT LINES, Forging, Mild steel. See **STEEL, Mild, Forging, Heat lines**

HEAT OF ADSORPTION, Surface active agents, Additives, Lubricating oils. See **LUBRICATING OILS, Additives, Surface active agents, Adsorption heat**

HEAT OF FORMATION, Aluminium carbide production. See **ALUMINIUM CARBIDE, Production, Heat of formation**

HEAT OF IMMERSION, Surface area measurement, Powders. See **POWDERS, Surface area, Measurement, Heat of immersion**

HEAT RESISTANT CONCRETE. See **CONCRETE, Heat resistant**

HEAT RESISTANT PLASTICS. See **PLASTICS, Heat resistant**

HEAT RESISTANT STAINLESS STEEL. See **STEEL, Stainless, Heat resistant**

HEAT SEALED POLYETHYLENE TEREPHTHALATE, Film, Packaging, Food. See **FOOD, Packaging, Film, Polyethylene terephthalate, Heat sealed**

HEAT SENSITISED MATERIALS, Photography. See **PHOTOGRAPHY, Heat sensitised materials**

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HEAT TREATED STEEL. See **STEEL, Heat treated**

HEATED AUSTENITIC STAINLESS STEEL. See **STEEL, Stainless, Austenitic, Heated**

HEATERS, Electric, Pressurised water, Nuclear reactors. See **NUCLEAR REACTORS, Pressurised water, Heaters, Electric**

HEATERS, Motor cars

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Soldering and brazing processes used in car heater production. G. T. Box & E. R. Perry. *Brit. Welding J.*, 12 (Dec 65) p.584-7. il.

HEATING

Related Headings:

BAKING
CALCINING
CRUCIBLES
ELECTRON BEAM HEATING
FURNACES
KILNS
OVENS
PLASMA ARCS
PLASMAS, H.F., Induction
REHEATING
RING OVENS
ROASTING
STOVES
STOVING

HEATING-SUBHEADINGS-Synopsis

This synopsis shows, in *italic*, related subheadings which are separated in the alphabetical sequence following.

Education

Equipment

By medium

Steam

Hot water

By fuel

Gas fired

Electric

Induction

Dielectric

HEATING, Air. See AIR HEATING

HEATING, Astronautics vehicles. See ASTRONAUTICS,

Vehicles, Re-entry into atmosphere, Heating

HEATING, Billets. See BILLETS, Heating

HEATING, Buildings. See BUILDINGS, Heating

HEATING, Buses. See BUSES, Heating

HEATING, Cathedrals. See CATHEDRALS, Heating

HEATING, Coal. See COAL, Heating

HEATING, Coal fired, Flats. See FLATS, Heating, Coal fired

HEATING, Crystallisation, Massecuite, Sugar. See

SUGAR, Massecuite, Crystallisation, Heating

HEATING, Cylinders, Drying, Papermaking. See PAPER-
MAKING, Drying, Cylinders, Heating

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HEATING, Dielectric, Drying, Papermaking. See PAPER-
MAKING, Drying, Heating, Dielectric

HEATING, Dielectric, Drying, Textiles. See TEXTILES,
Drying, Dielectric heating

HEATING, District. See DISTRICT HEATING

HEATING, Drying, Grain. See GRAIN, Drying, Heating

HEATING, Dyeing, Cotton-Dacron fabrics. See FABRICS,
Dacron-Cotton, Dyeing, Heating

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Education of engineers. *Steam & Heating Engr.*, 34 (Apr 65) p.3-4

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HEATING, Effect on humulones, Hops. See HOPS, Humulones, Effect of heating

HEATING, Effect on vibrations, Cylinders. See CYLINDERS, Vibrations, Effect of heating

HEATING, Electric, Anti-freeze equipment, Gas-holders.

See GAS-HOLDERS, Anti-freeze equipment, Electrical

HEATING, Electric, Buildings. See BUILDINGS, Heating, Electric

HEATING, Electric, Elements

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HEATING, Electric, Houses. See HOUSES, Heating, Electric

HEATING, Electric, Housing. See HOUSING, Heating, Electric

HEATING, Electric, Office buildings. See OFFICE BUILDINGS, Heating, Electric

HEATING, Electric, Off-peak

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HEATING, Electric, Parked buses. See BUSES, Parked, Heating, Electric

HEATING, Electric, Poultry houses. See POULTRY, Houses, Heating, Electric

HEATING, Electric, Railway rolling stock. See ROLLING STOCK (Railways) Heating, Electric

HEATING, Electric, Reinforced concrete floors, Flats. See FLATS, Floors, Concrete, Reinforced, Heating, Electric

HEATING, Electric, Stress relieving, Welded steel structures. See STRUCTURES, Steel, Welded, Stress relieving, Heating, Electrical resistance

HEATING, Electric, Surface

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HEATING, Factories. See FACTORIES, Heating

HEATING, Factories, Food processing. See FOOD, Processing, Factories, Heating

HEATING, Factories, Textiles. See TEXTILES, Factories, Heating

HEATING, Farm buildings. See FARM BUILDINGS, Heating

HEATING, Flats. See FLATS, Heating

HEATING, Floors, Flats. See FLATS, Floors, Heating

HEATING, Fuel oil, Ships. See SHIPS, Fuel oil, Heating

HEATING, Garages, Commercial vehicles. See VEHICLES, Commercial, Garages, Heating

HEATING, Gas fired

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HEATING, Gas-fired, Agricultural machinery manufactures.

See AGRICULTURAL MACHINERY, Manufactures, Heating, Gas-fired

HEATING, Gas-fired, Barracks. See BARRACKS, Heating, Gas

HEATING, Gas-fired, Battery manufactures, Motor car. See MOTOR CARS, Batteries, Manufactures, Heating, Gas-fired

HEATING, Gas-fired, Buildings. See BUILDINGS, Heating, Gas

HEATING, Gas-fired, Bungalows. See BUNGALOWS, Heating, Gas

HEATING, Gas-fired, Chapels, Crematoria. See CREMATORIA, Chapels, Heating, Gas

HEATING, Gas-fired, Conversion

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HEATING, Gas-fired, Drying, Inks, Four colour lithography. See LITHOGRAPHY, Colour, Four colour, Inks, Drying, Heating, Gas-fired

HEATING, Gas-fired, Engineering plant manufactures. See ENGINEERING, Plant, Manufactures, Heating, Gas-fired

HEATING, Gas fired, Factories. See FACTORIES, Heating, Gas-fired

HEATING, Gas-fired, Houses. See HOUSES, Heating, Gas

HEATING, Gas-fired, Infra-red

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HEATING, Gas-fired, Office buildings. See OFFICE BUILDINGS, Heating, Gas

HEATING, Gas-fired, Ovens, Baking, Bread. See BREAD, Baking, Ovens, Gas-fired

HEATING, Gas-fired, Stoving, Paint, Bodies, Motor cars. See MOTOR CARS, Bodies, Paint, Stoving, Heating, Gas-fired

HEATING, Gas fired, Stress relieving, Welded steel, Membrane walls, Furnaces, Water tube boilers. See BOILERS, Water tube, Furnaces, Membrane walls, Steel, Welded, Stress relieving, Heating, Gas fired

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HEATING, Greenhouses. See GREENHOUSES, Heating

HEATING, Hospitals. See HOSPITALS, Heating

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HEATING, Houses. See HOUSES, Heating

HEATING, Housing. See HOUSING, Heating

HEATING, Housing, Air pollution. See AIR POLLUTION, Domestic heating

HEATING, Hydrogen dealkylation, Aromatic hydrocarbons. See HYDROCARBONS, Aromatic, Dealkylation (Hydrogen) Heating

HEATING, Hydrothermal, Cement. See CEMENT, Hydrothermal heating

HEATING, Icing prevention, Conductors, Overhead power transmission lines. See POWER TRANSMISSION LINES, Overhead, Conductors, Icing, Prevention, Heating

HEATING, Immersion, Fuels, Diesel engines, Ships. See SHIPS, Diesel engines, Fuels, Heating, Immersion

HEATING, Immersion, Liquids. See LIQUIDS, Heating, Immersion

HEATING, Immersion, Petroleum, Tankers. See TANKERS, Ships, Petroleum, Heating, Immersion

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HEATING, Induction, Brazing. See BRAZING, Induction heating

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HEATING, Induction, Zone melting, Single crystals production, Titanium dioxide. See TITANIUM DIOXIDE, Crystals, Single, Production, Zone melting, Induction heating

HEATING, Industrial buildings. See INDUSTRIAL BUILDINGS, Heating

HEATING, Laboratories, Motor car research. See MOTOR CARS, Research, Laboratories, Heating

HEATING, Leading edges, Wings, Supersonic aircraft. See AIRCRAFT, Supersonic, Wings, Edges, Leading, Heating

HEATING, Liquefied petroleum gas, Drying equipment. See DRYING, Equipment, Liquefied petroleum gas fired

HEATING, Low voltage, Curing, Adhesives, Plastics laminates, Wood manufactures. See WOOD, Manufactures, Laminates, Plastics, Adhesives, Curing, Heating, Low voltage

HEATING, Low voltage, Curing, Adhesives, Wood manufactures. See WOOD, Manufactures, Adhesives, Curing, Heating, Low voltage

HEATING, Low voltage, Frost heave prevention, Cold stores. See COLD STORES, Frost heave, Prevention, Heating, Low voltage

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HEATING, Motorways. See MOTORWAYS, Heating

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HEATING, Oil circuit breakers. See CIRCUIT BREAKERS, Oil, Heating

HEATING, Oil-fired, Buildings. See BUILDINGS, Heating, Oil-fired

HEATING, Oil-fired, Ceramic manufactures. See CERAMICS, Manufactures, Heating, Oil-fired

HEATING, Oil-fired, Drying, Grain. See GRAIN, Drying, Heating equipment, Oil-fired

HEATING, Oil-fired, Fishing vessels. See FISHING, Vessels, Heating, Oil-fired

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HEATING, Oil fired, Hangars, Aircraft manufactures. See AIRCRAFT, Manufactures, Hangars, Heating, Oil fired

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HEATING, Oil-fired, Motels. See MOTELS, Heating, Oil-fired

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HEATING, Oil-fired, Prefabrication, Housing. See HOUSING, Prefabrication, Heating systems, Oil-fired

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HEATING, Opera houses. See OPERA HOUSES, Heating

HEATING, Papermaking. See PAPERMAKING, Heating

HEATING, Phosphate cement. See CEMENT, Phosphate, Heating

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HEATING, Prefabricated houses. See HOUSES, Prefabricated, Heating

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HEATING, Public buildings, Baths. See BATHS, Buildings, Public, Heating

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HEATING, R.F., Curing, Adhesives, Curved wood laminates.

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HEATING, R.F., Edge jointing, Wood. See WOOD, Jointing, Edge, Heating, R.F.

HEATING, R.F., Presses, Curing, Adhesives, Carcases, Wood furniture. See FURNITURE, Wood, Carcases, Adhesives, Curing, Presses, Heating, R.F.

HEATING, Radiant, Ceilings. See CEILINGS, Heating, Radiant

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HEATING, Spot, Fatigue cracks, Welded steel, Web plates, Girders. See GIRDERS, Spot, Web, Steel, Welded, Cracks (Fatigue) Repair, Plates heating

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HEATING, Steam, Winter concreting. See CONCRETING, Winter, Heating, Steam

HEATING, Steel, Billets. See BILLETS, Steel, Heating

HEATING, Swimming baths. See SWIMMING BATHS, Heating

HEATING, Switches, Railway tracks. See RAILWAYS, Track, Switches, Heating

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HEATING, Textile manufactures. See TEXTILES, Manufactures, Heating

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HEATING, Workshops, Shipbuilding. See SHIPBUILDING, Workshops, Heating

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HEAVY MEDIUM FLOTATION, Coal. See COAL, Flotation, Heavy medium

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HEAVY WATER MODERATED NUCLEAR REACTORS. See NUCLEAR REACTORS, Heavy water moderated

HEDJAZ

See RAILWAYS, Hedjaz

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Producing Shardlow micrometers and height gauges. J. J. Marklew. *Machinery*, 107 (4 Aug 65) p.235-9. il.

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HELICAL ROLLING, Steel. See STEEL, Rolling, Helical

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BENZOTRIAZOLE

BICYCLO [2.2.2] OCTENEBORONIC ACIDS

2-CHLOROFURAN

CYANURIC CHLORIDE

CYCLODODECANONE TOSYLHYDRAZONE

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HOT BLAST CUPOLAS. See CUPOLAS, Hot blast

HOT CARRIER CONDUCTION, Germanium, Semiconductors. See SEMICONDUCTORS, Germanium, Hot carrier conduction

HOT CARRIER DIODES. See DIODES, Hot carrier

HOT CATHODE IONISATION GAUGES. See IONISATION GAUGES, Hot cathode

HOT CATHODES. See CATHODES, Thermionic

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HOT FILM ANEMOMETERS, Wind tunnels, Boundary layer transition measurements, Supersonic flow, Fluids. See FLUIDS, Flow, Supersonic, Boundary layer, Transition, Measurements, Wind tunnels, Anemometers, Hot film

HOT FINISHING, Metal strips. See STRIPS, Metal, Finishing, Hot

HOT FOIL STAMPING, Thermoplastics. See THERMO-PLASTICS, Stamping, Hot foil

HOT GASES. See GASES, Hot

HOT ISOSTATIC COMPACTION, Powders. See POWDERS, Compaction, Gas pressure bonding

HOT ROLLED MILD STEEL, Rods. See RODS, Steel, Mild, Rolled, Hot

HOT ROLLED MILD STEEL, Strips. See STRIPS, Steel, Mild, Rolled, Hot

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HOT ROLLING, Aluminium. See ALUMINIUM, Rolling, Hot

HOT ROLLING, Aluminium, Strips. See STRIPS, Aluminium, Rolling, Hot

HOT ROLLING, Stainless steel, Plates. See PLATES, Steel, Stainless, Rolling, Hot

HOT ROLLING, Steel strips. See STRIPS, Steel, Rolling, Hot

HOT SHORTNESS, Mild steel, Strips. See STRIPS, Steel, Mild, Surfaces, Hot shortness

HOT STAGES, Electron microscopes. See MICROSCOPES, Electron, Hot stages

HOT TEARING, Castings, Steel alloys. See STEEL, Alloys, Castings, Hot tearing

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HOUSES

Related Headings:
CHILDREN'S HOMES

HOUSES—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Costs

Quantity surveying

Properties

Acoustics

Technical activities

Design

Architects

Construction

Preservation

Restoration

Modernisation

Conversion

Interior decoration

Parts and services

Exteriors

Frames

Panels

Walls

Windows

Roofs

HOUSES—SUBHEADINGS—Synopsis—cont.

Floors
Rooms
Entrance halls
Lounges
Attics
Engineering services
Heating
Insulation
Telephones
Gates

Kinds of houses

By period
Georgian
By material
Wood
Stone
Limestone
Concrete
By method of construction
Prefabricated
Expandable
By form
Hexagonal

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HOUSES, Concrete, Reinforced

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HOUSES, Interior decoration

Baillie Scott's Waldbuhl: interior. N. Taylor. *Architectural Rev.*, 138 (Dec 65) p.456-8. il.

HOUSES, Interior decoration, Wood, Chipboard

Chipboard for house interior. *Wood*, 30 (Jun 65) p.40-1. il.

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HOUSES, Lounges, Interior decoration

Lounge in a Victorian house. L. J. Dalton. *Painting & Decorating*, 85 (Jul 65) p.28-9. il.

HOUSES, Modernisation

Deciding on the best way to improve out-of-date houses. R. G. Walker. *Municipal J.*, 73 (22 Oct 65) p.3598+. il.
Walton Manor Estate. *Architect & Surveyor*, 9 (Nov/Dec 64) p.109-13. il.

HOUSES, Panels, Brickwork, Prefabricated

Prefabricated brick cladding panels ["Phorpres" Claywall Cladding Panels] *Industrialised Building*, 2 (Aug 65) p.6-9. il.

HOUSES, Panels, Wood, Prefabricated, Manufactures

System firm to supply components: wall units to be produced in works extension [Medway Buildings] *Industrialised Building*, 2 (Sep 65) p.78-9. il.

HOUSES, Prefabricated

Consortium's current housing programme completed on schedule [Midlands Housing Consortium] *Municipal J.*, 73 (22 Oct 65) p.3612. il.

First housing scheme of MHC-designed units completed: site at Coventry for 132 rationalised dwellings arranged with vehicle/pedestrian segregation. *Surveyor*, 126 (11 Sep 65) p.25-6. il.

Group development work by local authorities [M.H.C.] W. A. James. *Industrialised Building*, 2 (Oct 65) p.6-9. il.

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Midlands housing consortium [Coventry] *Builder*, 209 (24 Sep 65) p.677-9. il.

Midlands housing consortium: first contract completed.

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Atrium house. R. M. E. Diamant. *Architect & Building News*, 227 (27 Jan 65) p.182-5. il.

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Low-rise industrialised housing. *Official Architecture & Planning*, 28 (Mar 65) p.403. il.

HOUSES, Prefabricated, Calder system

Coventry pilot scheme of factory-made houses. *Surveyor*, 125 (13 Mar 65) p.21-2. il.

HOUSES, Prefabricated, Calverley Modular system

Calverley modular design: system-built houses erected in under six days. *Contract J.*, 207 (28 Oct 65) p.1055-6. il.

Leicestershire pilot scheme for timber system. *Industrialised Building*, 2 (Nov 65) p.38-9. il.

New timber-framed modular system. *Surveyor*, 126 (6 Nov 65) p.33-4. il.

Package homes [Calverley Modular system] *Master Builders' J.*, 10 (Dec 65) p.29. il.

Successful introduction of another rapid-building aid. *Municipal J.*, 73 (19 Nov 65) p.3987+. il.

HOUSES, Prefabricated, Carlton system

Carlton system. R. M. E. Diamant. *Architect & Building News*, 228 (27 Oct 65) p.788-90. il.

HOUSES, Prefabricated, Components, Manufactures

Britain's first 12M Jespersen works [Livingston] *Contract J.*, 206 (29 Jul 65) p.563-4. il.

Homes factory opens at Livingston. *Engineering*, 200 (30 Jul 65) p.143. il.

Livingston housing component factory: automated production of 12M Jespersen units. *Builder*, 209 (30 Jul 65) p.249. il.

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"Dorran" low-rise housing. *Builder*, 207 (18 Dec 64) p.1321-2. il.

Dorran system. R. M. E. Diamant. *Architect & Building News*, 228 (11 Aug 65) p.275-6. il.

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Factory production combined with timber frame methods. *Surveyor*, 126 (11 Dec 65) p.61-2. il.

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Where are the flues: the case for solid fuel in industrialised housing. W. C. Moss. Industrialised Building, 1 (Nov 64) p.59+. il.

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Infill housing schemes for Basildon Development Corporation. Surveyor, 125 (15 May 65) p.29-30. il.

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King's Lynn makes extensive use of system built houses. Surveyor, 125 (26 Jun 65) p.53-4. il.

Lowton-Cubitt housing at Kings Lynn. Builder, 209 (9 Jul 65) p.101. il.

51 system houses completed for King's Lynn Council. Contract J., 205 (24 Jun 65) p.1035. il.

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Medway system: timber-framed low-rise housing. Builder, 208 (11 Jun 65) p.1297-8. il.

Timber framed housing. Official Architecture & Planning, 28 (Jul 65) p.978+. il.

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Pilot scheme for Minox house: open system incorporates steel frame and brick panels. Industrialised Building, 2 (Sep 65) p.6-10. il.

HOUSES, Prefabricated, Modular co-ordination

Low rise high density housing. Builder, 208 (26 Mar 65) p.678. il.

HOUSES, Prefabricated, Procol system

Procol factory-made low-rise dwellings range designed for local authority of private developer. Industrialised Building, 2 (Apr 65) p.55-6. il.

HOUSES, Prefabricated, RATRA system

Rationalised-traditional-built houses in Lichfield: first examples of RATRA dwellings officially opened.

Surveyor, 125 (13 Feb 65) p.28. il.

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Dry lining technique exercise at Leeds: Reema system used for experiment with six houses. Industrialised Building, 2 (Feb 65) p.16+. il.

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Load-bearing plastics panels for house construction: first applications of the Resiform system to two-storey dwellings. Surveyor, 125 (17 Apr 65) p.25. il.

"Resiform" two-storey houses skinned with polyester/glass. Reinforced Plastics, 9 (Apr 65) p.226-7. il.

Two storey houses with plastic walls. Engineering, 199 (9 Apr 65) p.453. il.

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More industrialised housing at King's Lynn: 291 homes being built to the Rowcon system. Surveyor, 126 (20 Nov 65) p.47. il.

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SB2 system goes into production: four houses a day by the end of this year. Industrialised Building, 2 (May 65) p.6+. il.

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HOUSES, Prefabricated, Trada Crosswall system

Builders benefit from TRADA's guidance. J. S. McBride. Woodworking Industry, 22 (Mar 65) p.51+. il.

HOUSES, Prefabricated, Tropics

House engineered for the tropics. Engineering, 199 (5 Mar 65) p.300. il.

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Unit rationalised building designs: timber-framed construction with maximum use of off-site work [Unit Construction Co. Ltd.] Surveyor, 126 (4 Dec 65) p.39. il.

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USA industrialized building. P. Tindale. Architect & Building News, 227 (3 Feb 65) p.205-6

HOUSES, Prefabricated, Unicom system

Development of the Unicom method of house construction (extracts) J. I. Zerbe. Industrialised Building, 2 (Oct 65) p.31+. il.

HOUSES, Prefabricated, Unistem

Timber housing range is aimed at private development market [Unistem] Industrialised Building, 2 (Sep 65) p.87-8. il.

HOUSES, Prefabricated, Weir Multicom system

'Multi-com' housing. Builder, 209 (10 Sep 65) p.547-8. il.

HOUSES, Preservation

Olana falling. W. Andrews. Architectural Rev., 138 (Sep) p.215-18. il.

Round House at Evesham. Wood, 30 (Aug 65) p.24-7. il.

HOUSES, Quantity surveying

Quantity surveying, pt.33: measurement of a modern house. D. M. Jeffreys. Architect & Building News, 226 (23 Dec 64) p.1228-31

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HOUSES, Restoration

Dunkeld reconstruction completed. Official Architecture & Planning, 28 (Jul 65) p.971. il.

HOUSES, Roofs, Trusses

Proprietary roof and beam systems: no.11 'Tecton' Unitruss. Wood, 30 (Jun 65) p.45-6. il.

HOUSES, Rooms, Outdoor

Rooms without ceilings. Wood, 30 (Apr 65) p.40-3. il.

HOUSES, Stone, Sites, Sloping

Living on a shelf [Lindos on the island of Rhodes] J. Hope. Architectural Rev., 138 (Jul 65) p.65-8. il.

HOUSES, Telephones, Installation

Putting telephones into new houses. P.A. Panichelli & H.A. Reid. P.O. Telecommunications J., 17 (Autumn 65) p.12-15. il.

HOUSES, Walls, Panels, Prefabricated

Fimcrete permanent shuttering system. Industrialised Building, 2 (Apr 65) p.53. il.

HOUSES, Windows, Sliding

Sliding window: graduate house, Corpus Christi College, Cambridge. Architects' J., 142 (4 Aug 65) p.257-8. il.

HOUSES, Wood

Houses for the Forestry Commission. Wood, 30 (Feb 65) p.34-7. il.

'Trigon' holiday houses. Wood, 30 (Dec 65) p.36-9. il.

HOUSES, Wood, Prefabricated

Factory built timber houses: new Canadian venture. Builder, 209 (26 Nov 65) p.1207-8. il.

Housing competition. Architect & Building News, 226 (23 Dec 64) p.1207-9. il.

Large box prefabrication in timber: report on a completed project by Calder Homes Ltd. J. Jordan. Architects' J., 141 (2 Jun 65) p.1303-8. il.

Luxury homes from Norway: prefabricated timber range introduced into this country. Industrialised Building, 2 (Oct 65) p.10-11. il.

Timber and new techniques for faster building. Contract J., 208 (18 Nov 65) p.353-4. il.

HOUSES, Wood, Prefabricated, Linton TD7 system

Factory-made timber low-rise housing range: Linton TD system features storey-height panels. Industrialised Building, 2 (Jul 65) p.51-2. il.

HOUSES OF PARLIAMENT

Proposed extension to the Palace of Westminster. Official Architecture & Planning, 28 (Jan 65) p.81+. il.

Proposed extension to the Palace of Westminster. Official Architecture & Planning, 28 (Feb 65) p.249-50. il.

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Atelier Candilis, Josic and Woods. Architectural Design, 35 (Jan 65) p.35. il.

High density housing. A. T. Edwards. Official Architecture & Planning, 28 (Mar 65) p.397+. il.

High density housing with garages. A. T. Edwards. Official Architecture & Planning, 28 (Apr 65) p.541+. il.

Social determinants of housing design. R. Glass. Official Architecture & Planning, 28 (May 65) p.632-5. il.

Symposium on housing: architectural aspect. L. R. Harris. R. Soc. of Health J., 85 (Mar/Apr 65) p.82-4. ref.

HOUSING

Related Headings:

BUNGALOWS

COTTAGES

FLATS

HOUSES

HOUSING-SUBHEADINGS-Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Particular localities

Great Britain

England

London

Westminster

Greenwich

Lewisham

Southwark

Lambeth

Wandsworth

Richmond-upon-Thames

Newham

Camden

Portsmouth

Basildon

Sudbury

Broadclyst

Birmingham

Wolverhampton

Droitwich

HOUSING-SUBHEADINGS-Synopsis-cont.

Derby

Northern England

Stockport

Yorkshire

Hull

Sheffield

Leeds

Rochdale

Oldham

Jarrow

Scotland

Edinburgh

Ireland

Ballymun (Dublin)

France

Marseilles

Germany

Hamburg

Sweden

Finland

Espoo

Russia

Japan

Ichigaya

Hong Kong

U.S.A.

Cambridge (Mass.)

Canada

Montreal

Mexico

Mexico City

Properties

Microclimate

Problems

Town planning

Roads

Technical activities

Modernisation

Prefabrication

Interior design

Parts & Services

Components

Fittings

Frames

Panels

Roofs

Cladding

Windows

Partitions

Ceilings

Pipes

Kitchens

Bathrooms

Engineering services

Heating

Insulation

Ventilation

Lighting

Electrical installations

Sanitation

Sanitary ware

Water

Types of housing

By construction method

Co-operative

HOUSING—SUBHEADINGS—Synopsis—cont.

By Material

Concrete

Steel

Wood

By particular group of occupants

Old people

Spastics

HOUSING, Ballymun (Dublin)

Housing project for 12,000 people at Ballymun. Surveyor, 125 (20 Feb 65) p.39-40. il.

HOUSING, Basildon

Housing scheme, Basildon. Architect & Building News, 228 (1 Dec 65) p.1039-41. il.

HOUSING, Bathrooms, Buildings, Prefabricated

Prefabricated bathroom units: designed for fixing to existing houses. A. Budden. Industrialised Building, 2 (Jun 65) p.41+. il.

HOUSING, Birmingham

Council housing estate at Birmingham. Surveyor, 125 (29 May 65) p.23-5. il.

HOUSING, Birmingham, Druids Heath

Homes for 8,000 people on biggest factory-built estate. Municipal J., 73 (10 Dec 65) p.4229+. il.

HOUSING, Broadclyst

Broadclyst development. Architect & Building News, 228 (14 Jul 65) p.62-3. il.

Competition result: Broadclyst village. Architects' J., 142 (14 Jul 65) p.71+. il.

Residential development at Broadclyst. Builder, 209 (5 Nov 65) p.995-6. il.

Residential development at Broadclyst, Devon: winning design in National Trust competition. Builder, 209 (16 Jul 65) p.137-40. il.

HOUSING, Cambridge (Mass.)

Married student housing, Harvard. Architectural Design, 35 (Aug 65) p.377-82. il.

Sert's concept of living. S. Anderson. Architectural Design, 35 (Aug 65) p.376. il.

HOUSING, Camden

Student projects for Woolwich and Camden. Architects' J., 141 (19 May 65) p.1177+. il.

HOUSING, Camden, Kentish Town

Torriano Cottages, London, NW5. Builder, 209 (12 Nov 65) p.1037-8. il.

HOUSING, Ceilings, Fibre board

Fibreboard ceilings for domestic dwellings. Wood, 30 (Apr 65) p.78-80. il.

HOUSING, Cladding, Plastics

Plastics in cladding panels. R. G. B. Mitchell. Industrialised Building, 2 (Apr 65) p.6+. il.

HOUSING, Components, Blockboard

Plywoods and blockboards meet house building needs. C. D. McPhail. Wood, 30 (Nov 65) p.51-2. il.

HOUSING, Components, Fibre board

Fibre building board and modern living. L.R. Chambers. Wood, 30 (Nov 65) p.53-4. il.

HOUSING, Components, Plywood

Plywoods and blockboards meet house building needs. C. D. McPhail. Wood, 30 (Nov 65) p.51-2. il.

HOUSING, Components, Wood, Strength

Importance of designing for strength. H. J. Andrews. Wood-working Industry, 22 (Feb 65) p.33-4. il.

HOUSING, Concrete, Precast, Building units, Bulgaria

Using precast concrete units in Bulgaria. B. Krustev. Cement, Lime & Gravel, 40 (Aug 65) p.279-80

HOUSING, Concrete, Precast, Building units, Manufactures

Site casting at Leyton: compact batch layout for one-man operation [Wates Ltd.] C. K. G. Lamming. Cement, Lime & Gravel, 40 (Feb 65) p.65-6. il.

HOUSING, Concrete, Precast, Building units, Mechanical handling, Cranes, Portal

Portal crane for system building on-site work: in use on site concrete casting factory at Battersea. Surveyor, 125 (30 Jan 65) p.22. il.

HOUSING, Co-operative

Future of co-operative housing. D. Bain. Builder, 208 (12 Feb 65) p.365-6. il.

HOUSING, Derby

Meeting Derby's housing needs from 1945 to 1965. E. H. Gregory. Municipal J., 73 (26 Feb 65) p.679+. il.

HOUSING, Droitwich

Borough and county co-operate on Droitwich housing estate. Municipal J., 73 (11 Jun 65) p.2035-6. il.

HOUSING, Edinburgh, Leith Fort

Forth view: housing at Leith Fort, Edinburgh. Architectural Rev., 137 (Mar 65) p.218-23. il.

Housing at Leith Fort, Edinburgh. Architects' J., 141 (7 Apr 65) p.837-48. il.

HOUSING, Electrical installations

Promoting domestic wiring: how the contractor can encourage the householder to increase his lighting and power points. E. H. W. Banner. Electrical Times, 147 (8 Apr 65) p.531-2

HOUSING, Electrical installations, Prefabricated

Electrical installation: contemporary trends. T. H. Hulme. Industrialised Building, 2 (Jun 65) p.53+. il.

HOUSING, Engineering services, Prefabricated

Service care design for industrialised housing. A. F. E. Wise. Architectural Rev., 138 (Dec 65) p.460+. il.

HOUSING, Engineering services, Prefabricated, Components, Plastics

Using plastics in heart units. B. A. Clark. Industrialised Building, 2 (Jul 65) p.20+. il.

HOUSING, Espoo

Housing, Finland. Architect & Building News, 227 (24 Mar 65) p.547-50. il.

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Mutual benefit housing in Finland. Official Architecture & Planning, 28 (Jun 65) p.790-3. il.

Urbanisation in Finland. J. Aaltonen. Official Architecture & Planning, 28 (Nov 65) p.1574-8. il.

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Domestic fittings. Architect & Building News, 227 (2 Jun 65) p.1048-55. il.

Plastics in the building industry, pt.16: domestic fittings. A. A. Macfarlane. Architect & Building News, 227 (2 Jun 65) p.1045

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Rationalised timber frame construction for housing. E. Levin. Industrialised Building, 2 (May 65) p.28+. il.

Timber frame construction. R. Fitt. Industrialised Building, 2 (May 65) p.43+

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Context for a housing policy. D. V. Donnison. Official Architecture & Planning, 28 (May 65) p.626-631. il.

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Housing as a social priority: statements by Mr. Crossman & Mr. Mellish. Builder, 209 (24 Sep 65) p.657

Housing in the Buchanan age. N. E. Wates. Times Rev. of Industry & Technology, 3 (Nov 65) p.52+. il.

Housing progress and development in 1964. Surveyor, 125 (17 Apr 65) p.21-2

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Local authority housing programmes. Builder, 208 (16 Apr 65) p.867

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- Plan for at least 450,000 new homes a year. T. V. Prosser. National Builder, 46 (Jan 65) p.45-6
- Preview: housing. Architectural Rev., 137 (Jan 65) p.37-58. il.
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HOUSING, Greenwich, Blackheath

- Housing, Blackheath: Council estate, Vanbough Park, London. Architectural Rev., 138 (Nov 65) p.326-32. il.
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- Some trends in domestic heating (summary) D. E. Kimber. Steam & Heating Engr., 34 (May 65) p.33-7

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- Wear of boilers. Engineering, 220 (3 Dec 65) p.930-31

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- Central heating is standard in modern workshop housing. A. T. Bardsley. Municipal J., 73 (30 Jul 65) p.2613-14

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- New central heating calculators (M. H. Mear & Co.) Steam & Heating Engr., 35 (Oct 65) p.59. il.

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- Ripple for the M.E.B. [Feckenham substation] Electrical Times, 148 (21 Oct 65) p.614-15. il.

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- Hints to installers of domestic heating systems. G. C. Pearce. Oil Firing, 7 (Dec 64) p.20-2

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- Looking to the future in warm air heating: design stages of the Halcyon heater (summary) P. Crawford. Gas Times, 99 (Mar 65) p.25-6

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- Piped oil supply systems for district heating. C. J. Jones & J. H. Boddy. J. of Inst. of Petroleum, 51 (Apr 65) p.111-19. il. refs.

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- Housing, Kingston upon Hull. Architects' J., 142 (27 Oct 65) p.953+. il.

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HOUSING, Kitchens, Internal circulation, Planning

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HOUSING, Kitchens, Sinks

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HOUSING, Kitchens, Storage, Equipment

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HOUSING, Kitchens, Ventilators

- Domestic kitchens, pt.5: washing-up & other equipment. Architects' J., 141 (23 Jun 65) information sheet 1337. il.

HOUSING, Lambeth

- Alexandra Drive. R. Inst. of Brit. Architects J., 72 (Jul 65) p.354. il.
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- INSTRUMENTS**, Nuclear reactors. See NUCLEAR REACTORS, Instruments

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INSTRUMENTS, Polymer production. See POLYMERS, Production, Instruments

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INSTRUMENTS, Viscosity measurement. See VISCOSITY, Measurement, Instruments

INSTRUMENTS, Water depth measurement, Undercarriage aquaplaning, Water covered runways, Landing. See

LANDING, Water covered runways, Undercarriage

aquaplaning, Water depth measurement, Instruments

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INSULATED JOINTS, Rails, Track circuits, Signalling systems, Railways. See RAILWAYS, Signalling systems, Track circuits, Rail joints, Insulated

INSULATED WIRES, Electrical household appliances. See HOUSEHOLD APPLIANCES, Electrical, Wires, Insulated

INSULATING, Thermal, Insets, Windows, Housing. See

HOUSING, Windows, Insets, Insulation, Thermal

INSULATING CORE TRANSFORMERS. See TRANS-

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INSULATING JOINTS, Pipes. See PIPES, Joints, Insulating

INSULATING MATERIALS

Related Headings:

BLOCKS, Concrete, Insulating materials
CORK, Insulating materials
KAPOK, Insulating materials
MINERAL WOOL

INSULATING MATERIALS, Electrical

Related Headings:

ASBESTOS, Electrical insulating materials

INSULATING MATERIALS, Electrical

Related Headings—cont.

CERAMICS, Electrical insulating materials
 CONDUITS, Electrical
 DIELECTRIC LOSS
 DIELECTRICS
 EPOXY RESINS, Electrical insulating materials
 FILM, Plastics, Electrical insulating materials
 NITROGEN-SULPHUR HEXAFLUORIDE, Electrical insulating materials
 P.V.C., Electrical insulating materials
 PAPER, Electrical insulating materials
 PAPER, Oil impregnated, Insulation
 PERMITTIVITY
 PHENOLIC RESINS, Moulded, Electrical insulating materials
 PLASTICS, Electrical insulating materials
 PLASTICS, Reinforced, Electrical insulating materials
 POLYSULPHONES, Electrical insulating materials
 POLYTHENE, Electrical insulating materials
 SILICONES, Rubber, Electrical insulating materials
 SULPHUR HEXAFLUORIDE, Electrical insulating materials
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 HEAT SHIELDS
 LAGGING
 PLASTICS, Expanded, Thermal insulating materials
 POLYSTYRENE, Expanded, Thermal insulating materials
 POLYURETHANE, Expanded, Thermal insulating materials

INSULATING MATERIALS, Thermal, Air conditioning plant.

See AIR CONDITIONING, Plant, Insulating materials, Thermal

INSULATING MATERIALS, Thermal, Cryogenics. See

CRYOGENICS, Insulating materials

INSULATING MATERIALS, Thermal, Expanded glass. See

GLASS, Expanded, Thermal insulating materials

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INSULATION, Housing. See **HOUSING, Insulation**

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INSULATION, Office buildings. See **OFFICE BUILDINGS, Insulation**

INSULATION, Sound, Buildings. See **BUILDINGS, Insulation, Sound**

INSULATION, Sound, Floors. See **FLOORS, Insulation, Sound**

INSULATION, Sound, Schools. See **SCHOOLS, Insulation, Sound**

INSULATION, Sound, Ventilation equipment, Lecture halls. See **LECTURE HALLS, Ventilation, Equipment, Insulation, Sound**

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INSULATION, Thermal, Ducts, Warm air, Gas, Heating, Buildings. See **BUILDINGS, Heating, Gas, Warm air, Ducts, Insulation**

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INSULATION, Thermal, Re-entry into atmosphere, Astronautics vehicles. See **ASTRONAUTICS, Vehicles, Re-entry into atmosphere, Heating, Insulating**

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INTAKES, Air, Turbojets, Supersonic aircraft. See **AIRCRAFT, Supersonic, Turbojets, Intakes**

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INTERDIFFUSION, Single crystals, Gold-Palladium films.

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INTERFERENCE, Machine. See MACHINE INTERFERENCE

INTERFERENCE, Microwave communication, Radio. See RADIO, Communications, Microwave, Interference

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 PORTS, Galway
 RAILWAYS, Ireland
 SILVER, Mining, Tynagh
 TOWN & COUNTRY PLANNING, Ireland
 TRAMWAYS, Dublin
 ZINC, Mining, Tynagh

IRELAND, Northern. See NORTHERN IRELAND

IROKO

World timbers, no.64—Iroko. Wood, 30 (Dec 65) p.45-6. il.

IRON

Related Headings:
 STEEL

IRON—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Research

Information services

Properties

Yield stress

Fatigue

Creep

Magnetisation

Chemistry

Reaction with...

Oxidation

Corrosion

Scale

Passivation

Technical activities

Ores

Mining

Analysis

Determination

Production

Manufactures

Foundry practice

Foundries

Casting

Powder metallurgy

Heat treatment

Recrystallisation

Hardening

Chromising

Coating

Paint

Constituents

Precipitates

Types of Iron

Liquid

Pig

Cast

Grey

White

Nodular

Malleable

Zone refined

Armco

IRON—SUBHEADINGS—Synopsis—cont.

Body centred cubic

Alpha

Gamma

Roman

Alloys

Intermetallic compounds

Products

Castings

IRON, Alloys, Dendritic segregation, Electron probe micro-analysis

Quantitative study of dendritic segregation in iron-base alloys with the electron probe microanalyser. J. Philibert, E. Weinryb & M. Ancy. *Metallurgia*, 72 (Nov 65) p.203-11. il. refs.

IRON, Alloys, Liquid, Hydrogen solubility

Solubility of hydrogen in some liquid iron-based alloys. T. Bagshaw, D. Engelow & A. Mitchell. *J. of Iron & Steel Inst.*, 203 (Feb 65) p.160-5. il. refs.

IRON, Alloys, Machining

Machining data for iron-based alloys. D. M. Hayes. *Metalworking Production*, 109 (14 Jul 65) p.70-5. il.

IRON, Alpha, Fatigue, Dislocations

Dislocation arrangement in the surface layer of α -iron grains during cyclic loading. M. Klesnil & P. Lukas. *J. of Iron & Steel Inst.*, 203 (Oct 65) p.1043-8. il. refs.

IRON, Alpha, Foil. See FOIL, Iron, Alpha

IRON, Alpha, Grain boundaries, Diffusion

Grain boundary diffusion of iron, cobalt and nickel in alpha-iron and of iron in gamma-iron. D. W. James & G. M. Leak. *Philosophical Magazine*, 12 (Sep 65) p.491-503. il. refs.

IRON, Alpha, Precipitates, Microstructure

Morphology of precipitates [ϵ -Fe₃C, ϵ -Fe₃N, ϵ -Fe₃(CN)] in alpha-iron. I. Hrivňák. *Metal Treatment*, 32 (Apr 65) p.139-43. il. refs.

IRON, Armco, Machining, Cutters, Carbide, Sintered, Wear

Surface interaction of cemented carbide tool material and Armco iron. B. Gregory. *Brit. J. of Applied Physics*, 16 (May 65) p.689-95. il. refs.

IRON, Armco, Mechanical properties, Effect of tin

Influence of tin on the mechanical properties of iron and steel. A. B. Sheldermine, D. A. J. Robins. *J. of Iron & Steel Inst.*, 203 (Jan 65) p.40-6. il. refs.

IRON, Benitoite. See BENITOITE, Iron

IRON, Body centred cubic, Friction stress, Determination, Tensile tests

Determination of the friction stress from tensile tests on b.c.c. crystals. R. Phillips & J. A. Chapman. *J. of Iron & Steel Inst.*, 203 (May 65) p.511-13. refs.

IRON, Casings, Stators, Induction motors. See ELECTRIC MOTORS, Induction, Stators, Casings, Iron

IRON, Cast

Related Headings:

CUPOLAS

IRON, Cast, Baseplates, Wood sleepers, Rails, Permanent way.

See PERMANENT WAY, Rails, Sleepers, Wood, Baseplates, Iron, Cast

IRON, Cast, Bridges. See BRIDGES, Iron, Cast

IRON, Cast, Carbon equivalent, Determination, Thermal analysis

Thermal analysis—a technique for improving quality control in ironfoundries: L. Hall. *Brit. Foundryman*, 58 (Mar 65) p.98-102. il. refs.

IRON, Cast, Casings, Boilers. See BOILERS, Casings, Iron Cast

IRON, Cast, Casings, Sectional header boilers. See BOILERS, Sectional header, Casings, Iron, Cast

IRON, Cast, Cementite, Metallography, Etchants

Metallographic reagent for the identification of cementite in iron and steel. E. Bercha. *J. of Iron & Steel Inst.*, 203 (May 65) p.454-6. il. refs.

IRON, Cast, Chill, Tests

Chill testing for the control of quality of grey and chilled iron castings. J. W. Boyes & J. M. Greenhill. *Brit. Foundryman*, 58 (Mar 65) p.103-14. il. refs.

IRON, Cast, Determination of silicon, Thermoelectric voltage measurement

Rapid determination of silicon in cast iron by measurement of the thermo-electric voltage. P. J. Emerson. *Brit. Foundryman*, 58 (Apr 65) p.137-43. il. refs.

IRON, Cast, Die casting

Gravity-die-casting cast iron: practical guide to casting iron in permanent moulds. J. L. Francis. *Foundry Trade J.*, 118 (15 Apr 65) p.443-6. il. refs.

IRON, Cast, Diesel engine components. See DIESEL ENGINES, Components, Iron, Cast**IRON, Cast, Drums, Brakes, Motor vehicles. See MOTOR VEHICLES, Brakes, Drums, Iron, Cast****IRON, Cast, Effect of copper**

Benefits of adding copper to cast irons. *Engineer*, 219 (2 Apr 65) p.605-6

IRON, Cast, Enamelling, Vitreous, Stoving, Furnaces, Electric

Simultaneous vitreous enamelling of cast-iron and sheet-steel parts [Simplex Electrical Co. Ltd.] *Metal Finishing J.*, 11 (Jan 65) p.14+. il.

IRON, Cast, Gate valves. See VALVES, Gate, Iron, Cast**IRON, Cast, Kitchenware. See KITCHENWARE, Iron, Cast****IRON, Cast, Mechanical properties**

Mechanical properties of cast iron. G. N. J. Gilbert. *Chartered Mechanical Engr.*, 12 (Jun 65) p.316-22. il. refs.

IRON, Cast, Moulds, Die casting, Aluminium. See ALUMINIUM, Die casting, Moulds, Iron, Cast**IRON, Cast, Research**

The British Cast Iron Research Association: annual report. *Refractories J.* (Nov 65) p.522+

British Cast Iron Research Association: report of activities in the year ended June 30. *Foundry Trade J.*, 119 (4 Nov 65) p.597-603. il.

British Cast Iron Research Association: report of activities in the year ended June 30. (contd.) *Foundry Trade J.*, 119 (11 Nov 65) p.641-52. il.

IRON, Cast, Segments, Linings, Tunnels. See TUNNELS, Linings, Segments, Iron, Cast**IRON, Cast, Shear tests**

Elastic limits in shear: shear limit determinations with notched cylindrical test pieces of cast iron, steel and other materials. W. Ruff. *Iron & Steel*, 38 (Nov 65) p.542-51. il. refs.

IRON, Cast, Shielding, Nuclear reactors. See NUCLEAR REACTORS, Shielding, Iron, Cast**IRON, Cast, T-joints, Pipes. See PIPES, Joints, T-, Iron, Cast****IRON, Cast, Tensile tests**

Tensile testing of cast iron. E. Ward. *Foundry Trade J.*, 118 (27 May 65) p.623+. il. refs.

IRON, Cast, Testing, Ultrasonics

Ultrasonic velocity and attenuation measurements for determining the properties and structures of cast irons and cast steels. J. D. Lavender & A. G. Fuller. *Brit. Foundryman*, 58 (Feb 65) p.54-65. il.

IRON, Casting

Contribution of precision casting to economic manufacture and improvement of product quality (abstract) A. Short. *Foundry Trade J.*, 118 (25 Mar 65) p.352-3. il.

IRON, Casting, Moulds, Shell

Developments at Hayes Shell-Cast Limited: worthwhile adoption of the shell process, using zircon sand. *Foundry Trade J.*, 119 (29 Jul 65) p.131-4. il.

IRON, Casting, Pouring, Temperature

Importance of molten metal temperature control in iron casting production. R. L. Carden. *Brit. Foundryman*, 58 (Feb 65) p.49-54. il. refs.

IRON, Casting, Quality control

Shop floor control of cast irons. I. C. H. Hughes. *Brit. Foundryman*, 58 (Feb 65) p.41-3. refs.

IRON, Castings, Defects, Cupola blast moisture

Effect of blast humidity on the production of cupola cast iron. A. Collaud. *Iron & Steel*, 38 (Jan 65) p.12-16. il. refs.

IRON, Castings, Design

Practical benefits of effective liaison between the drawing office and the foundry (abstract) G. W. Nicholls. *Foundry Trade J.*, 118 (25 Mar 65) p.355-6

IRON, Castings, Inspection

Quality control of iron castings. *Machinery*, 107 (14 Jul 65) p.59+

Quality-control of iron castings. A. G. Fuller. *Foundry Trade J.*, 119 (15 Jul 65) p.69-78. il.

Quality control in the iron foundry. A. G. Fuller. *Metalworking Production*, 109 (7 Jul 65) p.53-7. il.

IRON, Castings, Slip, Production, Ferrous oxide, Powder metallurgy, Reduction

Reduction and sintering of slip-cast iron-oxide/copper-oxide mixtures. M. Zadrovitch & A. Mohanty. *Powder Metallurgy*, 8 (Spring 65) p.152-61. il. refs.

IRON, Castings, Surfaces, Structure, Metallography, Photography

Metallographic technique for examining the surface structure of castings. A. D. Lamb. *Brit. Foundryman*, 58 (Mar 65) p.114-18. il. refs.

IRON, Castings, Testing, Eddy current

Magnetic and electrical methods of non-destructive testing. T. Bailey, P. J. Emerson & S. H. Juby. *Brit. Foundryman*, 58 (Apr 65) p.121-9. il. refs.

IRON, Castings, Testing, Magnetic

Magnetic and electrical methods of non-destructive testing. T. Bailey, P. J. Emerson & S. H. Juby. *Brit. Foundryman*, 58 (Apr 65) p.121-9. il. refs.

IRON, Castings, Testing, Measuring

Control by weighing and measuring of production iron castings—a method of predicting unsoundness. J. M. Greenhill & K. E. L. Nicholas. *Brit. Foundryman*, 58 (Feb 65) p.43-8. il. refs.

IRON, Castings, Testing, Sonic

Sonic testing in the iron foundry. R. R. Lovett & N. Carter. *Brit. Foundryman*, 58 (Mar 65) p.77-82. il. refs.

IRON, Castings, Testing, Weighing

Control by weighing and measuring of production iron castings—a method of predicting unsoundness. J. M. Greenhill & K. E. L. Nicholas. *Brit. Foundryman*, 58 (Feb 65) p.43-8. il. refs.

IRON, Chromising

Observations on the chromizing of iron and plain carbon steels. I. A. Menzies & D. Mortimer. *Corrosion Science*, 5 (Aug 65) p.539-58. il. refs.

IRON, Corrosion (Acids) Effect of pH

Kinetics of the spontaneous dissolution of iron in concentrated ionic media. J. J. Podesta & A. J. Arvia. *Electrochimica Acta*, 10 (Feb 65) p.159-82. il. refs.

IRON, Corrosion (Acids) Inhibitors, Organic, Double layer capacitance, Studies, Polarisation curves

Double layer capacity at the interface between iron and acid solutions with and without organic materials. T. Murakawa & N. Hackerman. *Corrosion Science*, 4 (Dec 64) p.387-96. il. refs.

- IRON, Corrosion (Aqueous solutions) Effect of pH**
Kinetics of the anodic dissolution of iron in concentrated ionic media: galvanostatic and potentiostatic measurements. J. J. Podesta & A. J. Arvia. *Electrochimica Acta*, 10 (Feb 65) p.171-82. il. refs.
- IRON, Corrosion (Aqueous solutions) Films, Ferric oxide, Reduction**
Breakdown of the air-formed oxide film on iron upon immersion in solutions of pH 6-13. D. Gilroy & J. E. O. Mayne. *Brit. Corrosion J.*, 1 (Nov 65) p.102-6. il. refs.
- IRON, Corrosion (Aqueous solutions) Inhibition, Oxidants**
Inhibition of the corrosion of iron in the pH range 6-9. D. Gilroy & J. E. O. Mayne. *Brit. Corrosion J.*, 1 (Nov 65) p.107-9. il. refs.
- IRON, Corrosion (Buffer solutions) Effect of dissolved oxygen**
Effect of differential aeration on the rate of corrosion of iron. V. V. Skorcheletti & N. K. Golubeva. *Corrosion Science*, 5 (Mar 65) p.203-9. il. refs.
- IRON, Corrosion (Hydrochloric acid) Inhibitors, Phenanthroline**
Zum Mechanismus der Inhibitionswirkung organischer Verbindungen im System Eisen/Säure, pt.3: reaktive Fremdstoffbelegungen. H. Yamaoka & H. Fischer. *Electrochimica Acta*, 10 (Jul 65) p.679-711. il. refs.
- IRON, Corrosion (Hydrochloric acid) Inhibitors, Phenylthiourea**
Zum Mechanismus der Inhibitionswirkung organischer Verbindungen im System Eisen/Säure, pt.3: reaktive Fremdstoffbelegungen. H. Yamaoka & H. Fischer. *Electrochimica Acta*, 10 (Jul 65) p.679-711. il. refs.
- IRON, Corrosion, Pitting, Perchlorate ions**
Pitting corrosion of iron by perchlorate ions. L. I. Freiman & Ya. M. Kolotyarkin. *Corrosion Science*, 5 (Mar 65) p.199-202. il. refs.
- IRON, Corrosion (Sulphuric acid) Effect of halide ions**
Einfluss von Halogenidionen auf die anodische Auflösung des Eisens. W. J. Lorenz. *Corrosion Science*, 5 (Feb 65) p.121-31. il. refs.
- IRON, Creep**
Influence of nitrogen on the creep resistance of high-purity iron and iron alloys. L. M. T. Hopkin. *J. of Iron & Steel Inst.*, 203 (Jun 65) p.583-9. il. refs.
- IRON, Determination, Kyanite.** See KYANITE, Determination of iron
- IRON, Determination, Oils.** See OILS, Determination of iron
- IRON, Determination, Perchloric acid-Potassium thiocyanate.** See PERCHLORIC ACID-POTASSIUM THIOCYANATE, Determination of iron
- IRON, Determination of antimony, Neutron activation**
Determination of antimony in high-purity iron by neutron activation analysis. H. P. Dibbs & C. H. McMaster. *Chemistry & Industry* (30 Jan 65) p.217-18. il. ref.
- IRON, Drums, Comminutors, Sewage treatment.** See SEWAGE, Treatment, Comminutors, Drums, Iron
- IRON, Effect on hydrogen sulphide tarnishing, Silver, Electrical contacts.** See CONTACTS, Electrical, Silver, Tarnishing, Hydrogen sulphide, Effect of iron
- IRON, Effect on polymorphism, Tricalcium silicate.** See TRICALCIUM SILICATE, Polymorphism, Effect of iron
- IRON, Evaporated, Decoration, Boundaries, Magnetic domains.** See MAGNETIC DOMAINS, Boundaries, Decoration, Iron, Evaporated
- IRON, Fatigue, Metallography**
Metallographic study of iron fatigued in cyclic strain at room temperature. R. P. Wei & A. J. Baker. *Philosophical Magazine*, 12 (Nov 65) p.1005-20. il. refs.
- IRON, Films.** See FILMS, Iron
- IRON, Foundries**
Foundry modernization at Butterley. P. V. Palmer. *Foundry Trade J.*, 118 (25 Mar 65) p.359-61. il.
- IRON, Foundry practice, Madeley Wood**
Famous eighteenth century Shropshire foundry [Madeley Wood, Shropshire] *Foundry Trade J.*, 119 (9 Sep 65) p.337-8. il.
- IRON, Foundry practice, Scrap**
How to prevent scrap in iron foundries. S. W. Palmer. *Foundry Trade J.*, 119 (19 Aug 65) p.229-36. il. refs.
Minimizing scrap costing by sound design and foundry techniques (abstract) R. Wlackwer. *Foundry Trade J.*, 118 (25 Mar 65) p.349-51. il.
Prevention of scrap in ironfoundries. S. W. Palmer. *Brit. Foundryman*, 58 (Mar 65) p.83-92. il. refs.
- IRON, Gamma, Diffusion, Lattice**
Lattice diffusion in gamma iron. B. Sparke, D. W. James & G. M. Leak. *J. of Iron & Steel Inst.*, 203 (Feb 65) p.152-3. refs.
- IRON, Gamma, Grain boundaries, Diffusion**
Grain boundary diffusion of iron, cobalt and nickel in alpha-iron and of iron in gamma-iron. D. W. James & G. M. Leak. *Philosophical Magazine*, 12 (Sep 65) p.491-503. il. refs.
- IRON, Gates, Houses.** See HOUSES, Gates, Iron
- IRON, Grey, Casting, Moulds, Sand, Green, Additives**
Greensand additives effect on mould-cavity enlargement in grey-iron castings (abstract) J. F. Wallace & L. I. Toriello. *Foundry Trade J.*, 118 (15 Apr 65) p.454-6. il.
- IRON, Grey, Chemical engineering plant.** See CHEMICAL ENGINEERING, Plant, Iron, Grey
- IRON, Grey, Effect of tin**
Machine shop's experience with tin-alloyed cast iron. T. V. Edwards. *Tin & its Uses*, No.66 (1965) p.12-13. il.
- IRON, Grey, Foundry practice**
Broom & Wade's foundry at High Wycombe: close control on sand and metal is secret of grey-iron foundry's success. C. McCombe. *Foundry Trade J.*, 118 (6 May 65) p.529-38. il.
- IRON, Grey, Hypereutectic, Production, Cupolas, Water-cooled**
Water-cooled cupola operation with a basic slag (abstract) H. R. Dahlberg & W. W. Levi. *Foundry Trade J.*, 118 (15 Apr 65) p.451-4
- IRON, Grey, Low phosphorus, Effect of tin**
Effect of tin on the structure and properties of grey cast-irons containing up to 0.6 per cent phosphorus. G. N. J. Gilbert. *Foundry Trade J.*, 118 (4 Feb 65) p.129-34. il. refs.
- IRON, Grey, Machine tool components.** See MACHINE TOOLS, Components, Iron, Grey
- IRON, Grey, Segments, Typewriters.** See TYPEWRITERS, Segments, Iron, Grey
- IRON, Grey, Stands, Machinery.** See MACHINERY, Stands, Iron, Grey
- IRON, Industry, History**
Developments in the iron industry 200 years ago. M. Schofield. *Steel Times*, 190. (26 Feb 65) p.316-17
- IRON, Industry, South Africa**
South African iron and steel industry. T. Dennison. *J. of Iron & Steel Inst.*, 203 (Jul 65) p.657-64. il. refs.
- IRON, Information services, Abstracts**
New subject arrangement for the Abstract Section of the Journal of the Iron and Steel Institute and for the Institute's Abstract and Book Title Index Card Service (ABTICS) M. L. Pearl & J. P. Saville. *J. of Iron & Steel Inst.*, 203 (Dec 65) p.1256-8. il. refs.
- IRON, Intermetallic compounds**
Intermetallic chemistry of iron. W. Hume-Rothery. *J. of Iron & Steel Inst.*, 203 (Dec 65) p.1181-93. il.
- IRON, Intermetallic compounds, Uranium, Fuels, Nuclear reactors.** See NUCLEAR REACTORS, Fuels, Uranium, Intermetallic compounds, Iron

IRON, Liquid, Carbon diffusion

Diffusion of carbon in liquid iron. M. Hillert & N. Lange. *J. of Iron & Steel Inst.*, 203 (Mar 65) p.273-4. refs.

IRON, Liquid, Carburisation, Gas injection, Porous plugs

Porous plug for ladle desulphurization and carburization of iron. R. B. Coates & H. J. Leyshon. *Foundry Trade J.*, 119 (14 Oct 65) p.495-505. il. refs.

IRON, Liquid, Dephosphorisation, Oxygen-process, Kaldo

New iron refining plant at Stanton Works. *Iron & Steel*, 38 (Mar 65) p.119-21. il.

IRON, Liquid, Granulation

Granulation of liquid iron. Yu. A. Orlov. *Steel Times*, 190. (26 Feb 65) p.299-300. il.

IRON, Liquid, Sulphur removal, Gas injection, Porous plugs

Porous plug for ladle desulphurization and carburization of iron. R. B. Coates & H. J. Leyshon. *Foundry Trade J.*, 119 (14 Oct 65) p.495-505. il. refs.

IRON, Magnetic cores. See CORES, Magnetic, Iron**IRON, Magnetisation, Ponderomotive force**

Methods of calculating forces on magnetized iron parts. R. R. Birss. *International J. of Electrical Engng. Education*, 3 (Sep 65) p.407-11. refs.

IRON, Malleable, Blackheart, Annealing, Furnaces, Electric

Experiences with the electric annealing of malleable iron. D. H. Lindop. *Light Metals & Metal Industry*, 28 (Mar 65) p.35-7. il.

IRON, Malleable, Blackheart, Effect of copper

Copper in malleable, spheroidal-graphitic and white irons. J. G. Pearce & K. Bromage. *Foundry Trade J.*, 118 (4 Mar 65) p.257-64. il. refs.

IRON, Malleable, Casting, Cavityless, Feeder heads

Polystyrene patterns for malleable-iron feeder-heads. W. A. Parsons & M. D. Twitty. *Foundry Trade J.*, 118 (7 Jan 65) p.10-13. il. refs.

IRON, Malleable, Castings

Malleable iron castings. C. T. Moore. *Machinery Lloyd (Overseas ed.)* 37 (19 Jun 65) p.33-5. il.

IRON, Malleable, Castings, Thin-wall

Production of thin-section malleable-iron castings (abstract) J. Wallace & H. Kunsmann. *Foundry Trade J.*, 118 (15 Apr 65) p.447-9. il.

IRON, Malleable, Foundry practice

Developing a malleable iron foundry [William Lee and Sons (Malleable) Ltd., Dronfield] W. J. Campbell. *Light Metals & Metal Industry*, 28 (Aug 65) p.36-8. il.

Foundry expansion by sectional automation. D. H. Snelson. *Light Metals & Metal Industry*, 28 (Nov 65) p.50-1. il.

Gloucester foundry increases capacity. *Iron & Steel*, 38 (Oct 65) p.510-14. il.

Process evolution at Court Works, Limited. *Foundry Trade J.*, 119 (19 Aug 65) p.241-3. il.

Two foundries integrate... for production economy [H. W. Lindop & Sons Ltd. & Malleable Ltd.] *Metalworking Production*, 109 (15 Dec 65) p.93+. il.

Walsall malleable founders meet the challenge of increased production [H. W. Lindop & Sons, Ltd., and Malleable Ltd.] *Foundry Trade J.*, 119 (21 Oct 65) p.533-6. il.

IRON, Malleable, Pearlitic, Annealing

Malleablising furnace [AEI-Birlec installation at Ley's Malleable Castings Co Ltd.] *Mass Production*, 41 (Mar 65) p.73

IRON, Manufactures

Related Headings:

COGGING

STEEL, Manufactures

IRON, Mining, Education

Industrial training in Sierra Leone [Marampa iron ore mines] W. L. G. Muir. *Mining & Minerals Engng.*, 1 (Sep 65) p.507-12. refs.

IRON, Mining, Great Britain

Home and imported ore, pt.2: home ore counter-attacks. J. R. Tomlinson. *Steel Rev.* (Apr 65) p.13-15. il.

IRON, Mining, Kiruburu

Kiruburu iron ore project. *Engineer*, 220 (10 Dec 65) p.991-2

IRON, Mining, Malmberget

Future mining techniques for Malmberget. V. Harr. *Mining Magazine*, 113 (Dec 65) p.424+. il.

IRON, Mining, Mauretania

Iron hills of Mauretania. S. Veale. *Hawker Siddeley Rev.*, 3 No.2 (1965) p.18-21. il.

IRON, Mining, Nimba

Operational experience on the Lamco project. I. Pousette & A. Swartling. *Mining & Minerals Engng.*, 1 (Jul 65) p.410-17. il.

Operational experience on the Lamco project. I. Pousette & A. Swartling. *Mining & Minerals Engng.*, 1 (Aug 65) p.450-6. il.

IRON, Mining, Ontario

New iron ore project in Canada. *Mining Magazine*, 113 (Jul 65) p.83+

IRON, Mining, Sweden

Iron ore facilities in Northern Sweden. *Engineer*, 220 (12 Nov 65) p.813-14. il.

World's largest iron ore exporter celebrates 75th anniversary [Luossavaara-Kirunavaara Aktiebolag (LKAB)] *Steel Times*, 191 (24 Sep 65) p.396-401. il.

IRON, Motor vehicle parts. See MOTOR VEHICLES, Parts, Iron**IRON, Nodular**

Ductile cast iron: probable pattern of development in various fields. *Machinery*, 107 (8 Dec 65) p.1274-5. il.

Future of ductile cast iron. A. J. Gibbs Smith. *Mass Production*, 41 (Jan 65) p.55-6

Spheroidal-graphite iron in other countries (abstract) *Foundry Trade J.*, 117 (17 Dec 64) p.793-5

Review of the formation of spheroidal graphite in cast iron. S. Banerjee. *Brit. Foundryman*, 58 (Sep 65) p.344-53. refs.

IRON, Nodular, Bainitic

Production and use of bainitic and martensitic spheroidal-graphite irons. H. G. Gerlach. *Metallurgia*, 72 (Nov 65) p.215-19. il.

IRON, Nodular, Casting, Inoculation (Mould)

Mould- or "Instant"-inoculation. T. I. Jones. *Foundry Trade J.*, 118 (21 Jan 65) p.78-80. il.

IRON, Nodular, Casting, Moulds, Manufactures

Flaskless moulding brings precision and economy [John Williams of Cardiff Ltd.] N. Taylor. *Metalworking Production*, 109 (21 Jul 65) p.71-3. il.

IRON, Nodular, Casting, Sulphur removal, Gas injection, Porous plugs

Field experience with a porous plug in a foundry producing ductile iron. *Foundry Trade J.*, 119 (14 Oct 65) p.506-7. il.

IRON, Nodular, Commercial vehicle parts. See VEHICLES, Commercial, Parts, Iron, Nodular**IRON, Nodular, Effect of copper**

Copper in malleable, spheroidal-graphitic and white irons. J. G. Pearce & K. Bromage. *Foundry Trade J.*, 118 (4 Mar 65) p.257-64. il. refs.

IRON, Nodular, Gears. See GEARS, Iron, Nodular**IRON, Nodular, Martensitic**

Production and use of bainitic and martensitic spheroidal-graphite irons. H. G. Gerlach. *Metallurgia*, 72 (Nov 65) p.215-19. il.

IRON, Nodular, Melting, Furnaces, Rotary

Ductile cast iron and its future. *Machinery*, 106 (20 Jan 65) p.143-4. il.

IRON, Nodular, Pipes. See PIPES, Iron, Nodular

IRON, Nodular, Quality coding

Quality coding for S.-g. iron. C. A. Payne. Foundry Trade J., 118 (27 May 65) p.627-30. il.

IRON, Ores**Related Headings:**

HAEMATITE
MAGNETITE
SIDERITE

IRON, Ores, Australia

Australian iron ore developments. J. A. Dunn. Mining Magazine, 113 (Sep 65) p.180+. il.

IRON, Ores, Bulk handling

Iron ore from a shrinking world. Mechanical Handling, 52 (Dec 65) p.565-66

IRON, Ores, Conakry

Lateritic iron deposits of Conakry. F. G. Percival. Bull. of Instn. of Mining & Metallurgy, 74 (May 65) p.429-62. il. refs.

IRON, Ores, Concentration, Filtration, Steam

Dewatering by steam filtration. J. H. Brown. Mining Magazine, 112 (May 65) p.357+. il.

IRON, Ores, Handling

Bulk ore storage yards—a German solution. K. Schmoll. Storage Handling Distribution, 9 (Sep 65) p.52-5. il.

IRON, Ores, Loading, Ports

Brazilian ore port in operation. Shipping World & Shipbuilder, 156 (25 Nov 65) p.462

800,000 ton ore port at Mozambique. Mining Equipment International, 16 (Nov 65) p.6-7. il.

Exporting ore concentrate from Liberia. Engineering, 200 (30 Jul 65) p.134. il.

Iron ore facilities in Northern Sweden. Engineer, 220. (12 Nov 65) p.813-14. il.

Ore handling installation in Monrovia. Mining & Minerals Engng., 1 (Sep 65) p.513-14. il.

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PHOTO-OXIDATION

RADIOACTIVITY

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KNITWEAR

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LOCOMOTIVES

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SHUNTERS

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Technical activities
Industrial design
Maintenance

Parts
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Driver's safety devices

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Steam

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MACHINE TOOLS

Related Headings:

ABRASIVES
AUTOMATICS, Machine tools
BORING
BROACHES
CHUCKS
CLAMPS
CROPPING, Presses
DRAWING
DRILLING, Machines
DRILLS
FIXTURES, Machine tools
GRINDING
HOBBING
JIG GRINDING
JIGS
MACHINING
MANDRELS
METALS, Shearing
MILLING
PIERCING
PLANING
PRESS BRAKES
PRESS TOOLS
PRESSES, Hydraulic
PRESSES, Power
PRESSWORKING
PUNCHING
ROUTING
STAMPING
SWAGING
TOOLS, Diamond
TRANSFER MACHINES
TURNING

MACHINE TOOLS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

History

Particular localities

Great Britain

Italy

Czechoslovakia

Russia

Research

Standardisation

Metric system

Problems

Vibration

Safety

Guards

Technical activities

Design

Industrial design

MACHINE TOOLS—SUBHEADINGS—Synopsis—cont.

Manufactures
Assembly
Maintenance
Replacement
Rebuilding
Modification
Supervision
Painting

Components
Structures
Bearings
Spindles
Cutters
Slideways
Feed units
Positioning equipment
Coolants, Equipment
Electric motors
Pneumatic equipment
Controls
Control systems
Gauges
Protective covers

Utilisation**MACHINE TOOLS, Assembly, Die casting**

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MACHINE TOOLS, Control systems

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DIAPHRAGMS
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FREE WHEELING DEVICES
GEAR TRAINS
GEARBOXES
GEARS
LINKAGE MECHANISMS
LUBRICANTS
LUBRICATING GREASES
LUBRICATING OILS
LUBRICATION

MACHINERY

Related Headings—cont.

PISTON RINGS
PISTONS
PULLEYS
RATCHETS
ROLLERS
ROLLS
ROTORS
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MALT, Steep-liquor, Effect on fermentation, Worts, Brewing.

See BREWING, Worts, Fermentation, Effect of malt

steep-liquor

MALT, Transport, Commercial vehicles

Moving bulkhead for bulk-malt transport. *Automotive Body*

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MALT VINEGAR. See VINEGAR, Malt

MALTA

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MAN-MADE FIBRES

Related Headings:

ACRYLIC FIBRES

CELLULOSE TRIACETATE, Fibres

CRIMPLENE

DACRON

LYCRA

NYLON, Fibres

NYLON 6, Fibres

NYLON 6-T, Fibres

POLYESTER FIBRES

POLYPROPYLENE, Fibres

POLYUREA, Fibres

POLYURETHANE, Fibres

POLYVINYL ALCOHOL, Fibres

RAYON

TERYLENE

MAN-MADE FIBRES—SUBHEADINGS—Synopsis

This synopsis shows, in *italic*, related subheadings which are separated in the alphabetical sequence following.

Particular localities
Eastern Europe

Properties
Orientation

Technical activities
Identification
Density determination
Manufactures
Blending
Weaving
Looms
Dyeing

Types of man-made fibres
Elastic

MAN-MADE FIBRES, Bags, Cartridges. See **CARTRIDGES**, Bags, Man-made fibres

MAN-MADE FIBRES, Blending
Unit-system of man-made fibre blends [India Mills (Darwen) Ltd.] Textile Weekly, 65 (8 Jan 65) p.50-2. il.

MAN-MADE FIBRES, Carpets. See **CARPETS**, Man-made fibres

MAN-MADE FIBRES, Density determination
Fibre density determination. R. W. Moncrieff. Textile Weekly, 65 (25 Jun 65) p.1143+

MAN-MADE FIBRES, Dyeing
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MAN-MADE FIBRES, Elastic
Polymers and fibres. C. H. Bamford. J. of Textile Inst., Proc., 55 (Jul 65) p.73-88. il. refs.

MAN-MADE FIBRES, Fabrics. See **FABRICS**, Man-made fibres

MAN-MADE FIBRES, Fabrics, Clothing. See **CLOTHING**, Fabrics, Man-made fibres

MAN-MADE FIBRES, Fabrics, Clothing, Laboratories. See **LABORATORIES**, Clothing, Man-made fibres

MAN-MADE FIBRES, Identification
Rayon & synthetic fibres: dyeing and finishing of viscose, acetate cuprammonium, and other rayon and synthetic fibres. Dyer, Textile Printer, Bleacher & Finisher, 133 (7 May 65) p.711

MAN-MADE FIBRES, Industry, Hungary
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MAN-MADE FIBRES, Knitting yarns. See **KNITTING**, Yarns, Man-made fibres

MAN-MADE FIBRES, Looms, India
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MAN-MADE FIBRES, Manufactures
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MAN-MADE FIBRES, Manufactures, Chemicals
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MAN-MADE FIBRES, Manufactures, Northern Ireland

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Man-made fibres in Ulster: Northern Ireland now produces and uses an important part of UK man-made fibre output. Skinner's Record, 39 (Jun 65) p.452+. il.

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MAN-MADE FIBRES, Orientation, Measurement, Capacitance detectors

Dielectric anisotropy and fibre orientation. R. W. Moncrieff. Man-Made Textiles, 42 (Oct 65) p.38. refs.

MAN-MADE FIBRES, Safety belts, Overhead working, Lines, Telephony. See **TELEPHONY**, Lines, Overhead working, Safety belts, Man-made fibres

MAN-MADE FIBRES, Thread, Sewing, Making-up, Fabrics. See **FABRICS**, Making-up, Sewing, Thread, Man-made fibres
MAN-MADE FIBRES, Tops. See **TOPS**, Man-made fibres
MAN-MADE FIBRES, Wadding. See **WADDING**, Man-made fibres
MAN-MADE FIBRES, Yarns. See **YARNS**, Man-made fibres
MAN-MADE FIBRES, Yarns, Carpets. See **CARPETS**, Yarns, Man-made fibres

MAN-MADE FIBRES—COTTON, Belts, Conveyors, Coal mining. See **COAL**, Mining, Conveyors, Belts, Cotton—Man-made fibres

MAN-MADE FIBRES—WOOL, Carpets. See **CARPETS**, Man-made fibres—Wool

MAN-MADE FIBRES—WOOL, Fabrics. See **FABRICS**, Man-made fibres—wool

MAN-MADE FIBRES—WOOL, Felting
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MANAGEMENT

Related Headings:

PRODUCTION, Management

MANAGEMENT EDUCATION, Electrical naval engineering. See **NAVAL ENGINEERING**, Electrical, Education (Management)

MANAGEMENT EDUCATION, Engineering. See **ENGINEERING**, Education (Management)

MANAGEMENT EDUCATION, Shipbuilding. See **SHIPBUILDING**, Education (Management)

MANAGEMENT EDUCATION, Steel production. See **STEEL**, Production, Education (Management)

MANCHESTER

See

BUSES, Transport, Manchester

PORTS, Manchester

ROADS, Haulage, Manchester

TOWN PLANNING, Manchester

WATER, Resources, Manchester

WATER, Supplies, Manchester

MANCHESTER. UNIVERSITY

Roman Catholic Chaplaincy at Manchester University. Builder, 209 (10 Sep 65) p.535-6. il.

MANCHESTER. UNIVERSITY. Humanities Building
Humanities Building, Manchester. Architect & Building News, 226 (30 Dec 64) p.1255-60. il.

MANDREL DRAWING, Mild steel, Tubes. See **TUBES**, Steel, Mild, Drawing, Mandrel

MANDREL DRAWING, Steel, Tubes. See **TUBES**, Steel, Drawing, Mandrel

MANDRELS, Bending, Electrical conduits. See **CONDUITS**, Electrical, Bending, Mandrels

MANDRELS, Electroforming, Nickel foil, Reflectors, Power supplies, Astronautics vehicles. See **ASTRONAUTICS**, Vehicles, Power supplies, Reflectors, Foil, Nickel, Electroforming, Mandrels

MANDRELS, Expanding

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MANGALORE

See

RAILWAYS, Construction, Hassan-Mangalore

MANGANESE, Constituents, Alkali borate glass. See GLASS, Alkali borate, Constituents, Manganese

MANGANESE, Determination, Cement. See CEMENT, Determination of manganese

MANGANESE, Effect on cracking, Welding, Low alloy steel, Sheets. See SHEETS, Steel, Low alloy, Welding, Cracking, Effect of manganese

MANGANESE, Effect on precipitation, Nitrogen, Steel-Manganese. See STEEL-MANGANESE, Nitrogen, Precipitation, Effect of manganese

MANGANESE, Removal, Purification, Water. See WATER, Purification, Manganese removal

MANGANESE-COPPER. See COPPER-MANGANESE

MANGANESE DIOXIDE, Anodes, Voltaic cells. See CELLS, Voltaic, Anodes, Manganese dioxide

MANGANESE DIOXIDE, Carriers, Uranium production wastes, Protactinium-231 co-precipitation. See PROTACTINIUM-231, Co-precipitation (Uranium production wastes), Carriers, Manganese dioxide

MANGANESE DIOXIDE, Cathodes. See CATHODES, Manganese dioxide

MANGANESE DIOXIDE, Depolarisation, Leclanché cells. See CELLS, Leclanché, Depolarisation, Manganese dioxide

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MANGANESE DIOXIDE-AMMONIUM SULPHATE, Oxidation, Uranium (IV), Uranium (IV) dioxide production. See URANIUM (IV) DIOXIDE, Production, Uranium (IV), Oxidation, Ammonium sulphate-Manganese dioxide

MANGANESE-IRON. See IRON-MANGANESE

MANGANESE-NICKEL-CHROMIUM-STEEL. See STEEL-CHROMIUM-MANGANESE-NICKEL

MANGANESE OXIDE-ZINC OXIDE, Pigments, Ceramics. See CERAMICS, Pigments, Manganese oxide-Zinc oxide

MANGANESE-PLATINUM, Magnetic moments, Studies, Neutron diffraction

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MANGANESE-STEEL. See STEEL-MANGANESE

MANGANESE-STEEL, Plates. See PLATES, Steel-Manganese

MANGANESE-STEEL, Pressure vessels, Nuclear reactors. See NUCLEAR REACTORS, Pressure vessels, Steel-Manganese

MANGANESE SULPHATE, Neutron absorption, Calibration, Beryllium-Radium sources, Fast neutrons. See NEUTRONS, Fast, Sources, Beryllium-Radium, Calibration, Neutron absorption, Manganese sulphate

MANGANESE SULPHATE, Solutions, Neutron capture, Beryllium-Radium sources calibration, Photoneutrons. See PHOTONEUTRONS, Sources, Beryllium-Radium, Calibration, Neutron capture, Manganese sulphate solutions

MANGANIN, Gauges, High pressure, Cryogenics. See CRYOGENICS, High pressure, Gauges, Manganin

MANGLA

See

DAMS, Mangla

MANIKATA

See

CHURCHES, Manikata

MANIOC. See CASSAVA

MANIPULATORS, Electron diffraction specimens. See ELECTRON DIFFRACTION, Specimens, Manipulators

MANIPULATORS, Hydraulic, Forging. See FORGING, Manipulators, Hydraulic

MANIPULATORS, Radioactive materials handling. See RADIOACTIVE MATERIALS, Handling, Manipulators

MANITOBA

See

CHURCHES, Tyndall

CHURCHES, Winnipeg

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MANOMETERS, Gauges, Vacuum. See VACUUM, Gauges, Manometers

MANOSTATS, Cryostats, Helium. See HELIUM, Cryostats, Manostats

MANOSTATS, Sinks, Cryogenics. See CRYOGENICS, Sinks, Manostats

MANRIDING, Transport, Mining, Coal. See COAL, Mining, Transport, Manriding

MANURE, Liquid, Farms. See FARMS, Manure, Liquid

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MAPPING, Conformal, Conduction analysis, Heat. See HEAT, Conduction, Analysis, Conformal mapping

MAPS, Electronic, Flow, Traffic, Roads. See ROADS, Traffic, Flow, Maps, Electronic

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MAR-AGEING NICKEL-MOLYBDENUM-CHROMIUM-STEEL, Plates. See PLATES, Steel-Chromium-Molybdenum-Nickel, Mar-ageing

MAR-AGEING NICKEL-MOLYBDENUM-COBALT-STEEL. See STEEL-COBALT-MOLYBDENUM-NICKEL, Mar-ageing

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FISHING, Industry, Venezuela, Margarita Island

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Related Headings:

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MARINE TRANSPORT. See SHIPPING

MARINE WORMS, Pests, Wood, Fishing vessels. See FISHING, Vessels, Wood, Pests, Marine worms

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MARMALADE, Concentrate, Processing

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MARSEILLES

See

HOUSING, Marseilles

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- See TOWN PLANNING, Martlesham Heath

MASERS

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MASKS, Optical diffraction patterns, X-ray diffraction photograph interpretation. See X-RAYS, Diffraction, Photographs, Interpretation, Optical diffraction patterns, Masks**MASKS, Optical diffraction patterns, X-ray diffraction photograph interpretation, Fibres, Textiles. See TEXTILES, Fibres, X-ray diffraction, Photographs, Interpretation, Optical diffraction patterns, Masks****MASONRY****Related Headings:****BRICKWORK****MASS INTEGRAL DETECTORS, Gas chromatography. See GAS CHROMATOGRAPHY, Detectors, Mass integral****MASS SPECTROMETERS**

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MASS SPECTROMETERS, R.F., Kinetic energy determination, Ions. See IONS, Kinetic energy, Determination, Mass spectrometers, R.F.**MASS SPECTROMETERS, Spark source, Geochemical prospecting. See PROSPECTING, Geochemical, Mass spectrometers, Spark source****MASS SPECTROMETERS, Time of flight**

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GRABS

HOISTING EQUIPMENT

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MECHANICAL HANDLING, Seamless stocking manufactures. See **STOCKINGS**, Seamless, Manufactures, Mechanical handling

MECHANICAL HANDLING, Shoe manufactures. See **SHOES**, Manufactures, Mechanical handling

MECHANICAL HANDLING, Steel, Billets. See **BILLETS**, Steel, Mechanical handling

MECHANICAL HANDLING, Steel, Scrap. See **STEEL**, Scrap, Mechanical handling

MECHANICAL HANDLING, Steel alloys, Billets. See **BILLETS**, Steel alloys, Mechanical handling

MECHANICAL HANDLING, Steel girder manufactures, Bridges. See **BRIDGES**, Girders, Steel, Manufactures, Mechanical handling

MECHANICAL HANDLING, Steel girder manufactures, Cranes. See **CRANES**, Girders, Steel, Manufactures, Mechanical handling

MECHANICAL HANDLING, Steel production. See **STEEL**, Production, Mechanical handling equipment

MECHANICAL HANDLING, Stoking, Coke breeze fired water tube boilers. See **BOILERS**, Water tube, Coke breeze fired, Stoking, Mechanical handling equipment

MECHANICAL HANDLING, Storage, Alcoholic beverages. See **ALCOHOLIC BEVERAGES**, Storage, Mechanical handling

MECHANICAL HANDLING, Storage, Steel, Tubes. See **TUBES**, Steel, Storage, Mechanical handling

MECHANICAL HANDLING, Storage, Wines. See **WINES**, Storage, Mechanical handling

MECHANICAL HANDLING, Sugar production. See **SUGAR**, Production, Mechanical handling

MECHANICAL HANDLING, Tablets, Drugs. See **DRUGS**, Tablets, Mechanical handling

MECHANICAL HANDLING, Textile manufactures. See **TEXTILES**, Manufactures, Handling

MECHANICAL HANDLING, Tobacco. See **TOBACCO**, Mechanical handling

MECHANICAL HANDLING, Town gas production. See **GAS** (Town) Production, Mechanical handling equipment

MECHANICAL HANDLING, Vegetables. See **VEGETABLES**, Mechanical handling

MECHANICAL HANDLING, Vertical car parks. See **CAR PARKS**, Vertical, Mechanical handling

MECHANICAL HANDLING, Warehouses, Cigarettes. See **CIGARETTES**, Warehouses, Mechanical handling

MECHANICAL HANDLING, Warehouses, Storage, Groceries. See **GROCERIES**, Warehouses, Mechanical handling

MECHANICAL HANDLING, Warehouses, Storage, Electric cables. See **CABLES**, Electric, Storage, Warehouses, Mechanical handling

MECHANICAL HANDLING, Warehouses, Storage, Wallpapers. See **WALLPAPERS**, Storage, Warehouses, Mechanical handling

MECHANICAL HANDLING, Warehouses, Storage, Xerography machines. See **XEROGRAPHY**, Machines, Storage, Warehouses, Mechanical handling

MECHANICAL HANDLING, Welding, Steel, Tubes. See **TUBES**, Steel, Welding, Mechanical handling

MECHANICAL HANDLING, Wood. See **WOOD**, Mechanical handling

MECHANICAL STOKING, Coke breeze fired boilers. See **BOILERS**, Coke breeze fired, Stoking, Mechanical

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LUNGS, Stimulators
METRONOMES, Medical electronics
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See

ORES, Mining, Megen

MELGAM RIVER

See

DAMS, Reservoirs, Melgam River

MELT CRYSTALLISATION, Polymers. See POLYMERS, Crystallisation, Melt

MELT CRYSTALLISATION, Polythene. See POLYTHENE, Crystallisation, Melt

MELT GRAPHITISATION, Carbon. See CARBON, Graphitisation, Melt

MELT SPINNING, Filament man-made fibres, Yarns. See YARNS, Man-made fibres, Filament, Melt spinning

MELTERS, Snow clearance, Roads. See ROADS, Snow clearance, Melters

MELTING

Related Headings:

ELECTRON BEAM MELTING
RE-MELTING

MELTING, Aluminium. See ALUMINIUM, Melting

MELTING, Aluminium alloys. See ALUMINIUM, Alloys, Melting

MELTING, Casting, Camera components. See CAMERAS, Components, Casting, Melting

MELTING, Casting, Chromium—Steel. See STEEL—CHROMIUM, Casting, Melting

MELTING, Casting, Non-ferrous metals. See NON-FERROUS METALS, Casting, Melting

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MELTING, Non-ferrous metals. See NON-FERROUS METALS, Melting

MELTING, Opal glass. See GLASS, Opal, Melting

MELTING, Pressure die casting. See DIE CASTING, Pressure, Melting

- MELTING, Refractory metals. See METALS, Refractory, Melting
- MELTING, Snow. See SNOW, Melting
- MELTING, Superalloys. See SUPERALLOYS, Melting
- MELTING, Vacuum, Furnaces**
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- MELTING, Vacuum, Titanium. See TITANIUM, Melting, Vacuum
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- MELTING POINT, Measurement, Instruments**
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- MEMBRANES, Barium sulphate-Cellophane, Electrodialysis. See ELECTRODIALYSIS, Membranes, Barium sulphate-Cellophane
- MEMBRANES, Fluorinated ethylene propylene, Electrodes, Oxygen tension measurement, Fermentation. See FERMENTATION, Oxygen tension, Measurement, Electrodes, Membranes, Fluorinated ethylene propylene
- MEMBRANES, Palladium-Hydrogen electrodes, Hydrogen-Oxygen fuel cells. See FUEL CELLS, Hydrogen-Oxygen, Electrodes, Palladium-Hydrogen, Membranes
- MEMBRANES, Silicones, Dialysis, Gases. See GASES, Dialysis, Membranes, Silicones
- MEMBRANES, Stresses, Parabolic conoidal shells. See SHELLS, Conoidal, Parabolic, Membrane stresses
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- MERBAU**
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- MERCAPTANS, Removal, Refining, Petroleum. See PETROLEUM, Refining, Mercaptans removal
- MERCEDES-BENZ 220b CARS. See MOTOR CARS, Types, Mercedes-Benz 220b
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- MERCEDES-BENZ 230SL AUTOMATIC CARS. See MOTOR CARS, Types, Mercedes-Benz 230SL Automatic
- MERCEDES-BENZ 600 CARS. See MOTOR CARS, Types, Mercedes-Benz 600
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- MERCEDES-BENZ LP 608 COMMERCIAL VEHICLES. See VEHICLES, Commercial, Types, Mercedes-Benz LP 608
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- MERCURIC OXIDE, Electrodes. See ELECTRODES, Mercuric oxide
- MERCURY, Alloys
Related Headings:
AMALGAM
- MERCURY, Cathodes. See CATHODES, Mercury
- MERCURY, Determination, Organic materials. See ORGANIC MATERIALS, Determination of mercury
- MERCURY, Diffusion, Single crystals, Gold. See GOLD, Crystals, Single, Mercury diffusion
- MERCURY, Diffusion pumps, Vacuum, Electron tube manufactures. See ELECTRON TUBES, Manufactures, Vacuum, Pumps, Diffusion, Mercury
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MERCURY ARC RECTIFIERS. See RECTIFIERS, Mercury arc

MERCURY ARC RECTIFIERS, D.C. motors, Rolling, Steel, Billets. See BILLETS, Steel, Rolling, Electric motors, D.C., Rectifiers, Mercury arc

MERCURY ARC RECTIFIERS, Electric locomotives. See LOCOMOTIVES, Electric, Rectifiers, Mercury arc

MERCURY ARC SWITCHES. See SWITCHES, Mercury arc

MERCURY COMPOUNDS, Fungicidal paint. See PAINT, Fungicidal, Mercury compounds

MERCURY-ARGON, Fluorescent lamps. See LAMPS, Fluorescent, Mercury-Argon

MERCURY-ARGON, Gas discharge, Electron tubes. See ELECTRON TUBES, Gas discharge, Argon-Mercury

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MERCURY IODIDE, Lamps, Lighting, Streets. See STREETS, Lighting, Lamps, Mercury iodide

MERCURY-NEON, Glow discharge tubes. See ELECTRON TUBES, Glow discharge, Mercury-Neon

MERCURY PERCHLORATE, Reagents, Amperometric titrations, Iron determination, Perchloric acid-Potassium thiocyanate. See PERCHLORIC ACID-POTASSIUM THIOCYANATE, Determination of iron, Amperometric titrations, Reagents, Mercury perchlorate

MERCURY PISTON COMPRESSORS. See COMPRESSORS, Mercury piston

MERCURY TELLURIDE-INDIUM SESQUITELLURIDE. See INDIUM SESQUITELLURIDE-MERCURY TELLURIDE

MERCURY-TELLURIUM, Semiconductors. See SEMICONDUCTORS, Mercury-Tellurium

MERCURY VAPOUR GAS DISCHARGE TUBES. See ELECTRON TUBES, Gas discharge, Mercury vapour

MERCURY VAPOUR LAMPS. See LAMPS, Mercury vapour

MERCURY VAPOUR LAMPS, Irradiation, Tantalum oxide films. See FILMS, Tantalum oxide, Irradiated, Mercury vapour lamps

MERCURY VAPOUR LAMPS, Street lighting. See STREETS, Lighting, Mercury vapour

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INDUSTRIAL BUILDINGS, Town planning, Merseyside

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METAL FIBRE REINFORCED SOLDER. See SOLDER, Metal fibre reinforced

METAL-GAS REACTIONS, Argon shielded arc welding. See WELDING, Arc, Argon shielded, Gas-Metal reactions

METAL OXIDE FILM RESISTORS. See RESISTORS, Metal oxide film

METAL-OXIDE-SEMICONDUCTOR DIODES. See DIODES, Metal-Oxide-Semiconductor

METAL-OXIDE-SEMICONDUCTOR TRANSISTORS. See TRANSISTORS, Metal-Oxide-Semiconductor

METAL-SEMICONDUCTOR DIODES. See DIODES, Hot carrier

METAL-SLAG EQUILIBRIUM, Chromium-Steel production. See STEEL-CHROMIUM, Production, Metal-Slag equilibrium

METALLISATION, Vacuum. See GAS PLATING

METALLISED FABRICS. See FABRICS, Metallised

METALLISED POLYESTER FIBRES, Fabrics. See FABRICS, Polyester fibres, Metallised

METALLOGRAPHY, Cementite, Cast iron. See IRON, Cast, Cementite, Metallography

METALLOGRAPHY, Cementite, Steel. See STEEL, Cementite, Metallography

METALLOGRAPHY, Fatigue, Iron. See IRON, Fatigue, Metallography

METALLOGRAPHY, Irradiated uranium, Fuels, Nuclear reactors. See NUCLEAR REACTORS, Fuels, Uranium, Irradiated, Metallography

METALLOGRAPHY, Powder metallurgy, Steel alloys. See STEEL, Alloys, Powder metallurgy, Metallography

METALLOGRAPHY, Structure, Surfaces, Castings, Iron. See IRON, Castings, Surfaces, Structure, Metallography

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METALLURGY

Related Headings:

IRON, Production
METALLOGRAPHY
SMELTING
STEEL, Production

METALLURGY, Analysis. See ASSAYING

METALLURGY, Education

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ACTINIDES
ALLOYS
ALUMINIUM
ANTIMONY

BARIUM
BERYLLIUM
BIMETALS
BISMUTH
CADMIUM
CAESIUM
CALCIUM
CERIUM
CHROMIUM
COBALT
COPPER
CURIUM-244
ERBIUM
EUROPIUM
GADOLINIUM
GALLIUM
GERMANIUM
GOLD
INDIUM
IRON
LEAD
LITHIUM

METALS**Related Headings—cont.**

MAGNESIUM
MANGANESE
MERCURY
MOLYBDENUM
NEODYMIUM
NEPTUNIUM
NICKEL
NIOBIUM
NON-FERROUS METALS
ORES
PALLADIUM
PLATINUM
PLATINUM METALS
PLUTONIUM
POLONIUM
POTASSIUM
PRECIOUS METALS
PROTACTINIUM-231
RADIUM
RHENIUM
RHODIUM
SCANDIUM
SELENIUM
SEMI-METALS
SILVER
SODIUM
STRONTIUM
TANTALUM
TELLURIUM
THALLIUM
THORIUM
TIN
TITANIUM
TUNGSTEN
URANIUM
VANADIUM
YTTRIUM
ZINC
ZIRCONIUM

METALS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

*History***Physical & chemical aspects**

Electronic structure
Electron spin resonance
Density
Mechanical properties
Hardness
Fatigue
Creep
Cracking
Embrittlement
Surfaces
Friction, Internal
Sliding
Abrasion
Fretting
Thermal properties
Thermal conductivity
Electrical properties
Electrical resistivity
Crystals
Grain boundaries

METALS—SUBHEADINGS—Synopsis—cont.

- Chemistry
 - Oxidation
 - Pitting
 - Analysis
 - Determination
 - Polarography
 - Solvent extraction
 - Technical activities
 - Testing
 - Mining
 - Production
 - Manufactures
 - Forming
 - Cold working
 - Extrusion
 - Electroforming
 - Spinning
 - Shearing
 - Sawing
 - Bonding
 - Stitching
 - Finishing
 - Cleaning
 - Polishing
 - Coating
 - Enamelling
 - Painting
 - Paint
 - Storage
 - States and types of metals
 - Incandescent
 - Liquid
 - Cubic
 - Body centred cubic
 - Face centred cubic
 - Hexagonal close packed
 - Shock loaded
 - Welded
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- METALS, Anodes. See ANODES, Metals
- METALS, Attenuation, Ultrasonics. See ULTRASONICS, Attenuation, Metals
- METALS, Bars. See BARS, Metal
- METALS, Beams. See BEAMS, Metals
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FORGING
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FOUNDRY PRACTICE
HEAT, Treatment
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PLATES, Metals
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BALLOONS, Meteorology
BAROMETERS
ROCKETS, Meteorology
SHIPS, Weather
- METEOROLOGY**
Related Headings:
CLIMATE
CLOUDS
FOG
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ICE, Crystals, Nucleation
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What shall we do with UHT milk? (extracts) P. Hoare. Dairy Industries, 30 (Dec 65) p.953

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Choice of a milking parlour. J. Crofter. Farmbuildings (Winter 64) p.23+. il.

Conversion to cubicles with slats: Lodge Farm Marston, Trussell, Market Harborough, Leics., England. J. Crofter. Farmbuildings (Summer 65) p.97-8. il.

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See

FLATS, Millendreath

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Related Headings:

SUB-MILLIMETRE WAVE FREQUENCY

MILLIMETRE WAVE FREQUENCY, Paramagnetic resonance.

See PARAMAGNETIC RESONANCE, Millimetre wave frequency

MILLIMETRE WAVE FREQUENCY, Plasmas, Semiconductors, Isolators. See ISOLATORS, Semiconductors, Plasmas, Millimetre wave frequency**MILLINERY, Knitted, Manufactures**Forage caps to fashion fabrics. *Hosiery Trade J.*, 72 (Jul 65) p.104+. il.**MILLING, Animal feedingsuff manufactures. See ANIMAL FEEDINGSTUFFS, Manufactures, Grinding****MILLING, Ball, Effect on particle size distribution, Powders, Uranium dioxide, Fuels, Nuclear reactors. See NUCLEAR REACTORS, Fuels, Uranium dioxide, Powders, Particle size distribution, Effect of ball milling****MILLING, Blades, Turbines. See TURBINES, Blades, Milling****MILLING, Cams, Engines, Aircraft. See AIRCRAFT, Engines, Cams, Milling****MILLING, Cast iron, Segments, Linings, Tunnels. See TUNNELS, Linings, Segments, Iron, Cast, Milling****MILLING, Crankshafts, Compressors. See COMPRESSORS, Crankshafts, Milling****MILLING, Cutters, Grinding, Machines**Walter type AMS 600F cutter grinder. *Machinery* (23 Jun 65) p.1382-3. il.**MILLING, Cutters, Restricted edge, Wear**Improved cutter for high performance milling. P. Fleischer. *Engineer*, 219 (28 May 65) p.918-24. il. refs.**MILLING, Die sinking. See DIE SINKING, Milling****MILLING, Flour. See FLOUR, Milling****MILLING, Gas turbine components, Aircraft. See AIRCRAFT, Gas turbines, Components, Milling****MILLING, Impact, Flour. See FLOUR, Milling, Impact****MILLING, Machines**Birfield milling machine. *Machinery Lloyd* (European ed.) 37 (Jul 65) p.37. il.Birfield milling machine. *Machinery Lloyd* (Overseas ed.) 37 (19 Jun 65) p.36. il.Cincinnati CIM-X "machining centre". *Machinery*, 107 (15 Sep 65) p.615-17. il.Kearns type 724P horizontal milling, boring, and surfacing machine. *Machinery*, 107 (11 Aug 65) p.325-6. il.Large Craven vertical turning and boring mill. *Machinery*, 106 (31 Mar 65) p.695-6. il.New Butler range of combined planing and milling machines [Type CSE] *Brit. Machine Tool Engng.*, 47 (Autumn 65) p.42-5. il.Productivity and milling machines. J. G. Petter. *Engrs'* Digest, 26 (Aug 65) p.92-3Thiel No.162 5-axis universal milling machine. *Machinery*, 106 (24 Mar 65) p.644-5. il.Universal mill of novel design [Thiel Model 162] *Tooling*, 19 (Apr 65) p.46-7. il.Wickman profile milling machine. *Machinery*, 107 (8 Dec 65) p.1282-4. il.**MILLING, Machines, Assembly**Assembly and testing arrangements for Cincinnati Powermatic machines. A. W. Astrop. *Machinery*, 107 (7 Jul 65) p.16-18. il.**MILLING, Machines, Control systems**Cincinnati Powermatics designed for production by numerical control. A. W. Astrop. *Machinery*, 106 (23 Jun 65) p.1348-58. il.**MILLING, Machines, Control systems—cont.**

Continuous-path numerically-controlled milling machines.

H. G. Hayes. *Machinery*, 106 (17 Feb 65) p.371-2. il.Demonstration set up on the Kendall & Gent type VMPC.15 numerically-controlled vertical milling machine. *Machinery*, 106 (2 Jun 65) p.1194-5. il.Elliott sequence control equipment [Zbrojovka vertical milling machine] A. J. Barker. *Machinery*, 107 (22 Sep 65) p.646-50. il.

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Marwin Maxemill tape-controlled milling machines.

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Parkson Miller-matic programmed milling machine

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Milling large concave radii with a small diameter cutter.

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MILLS, Paint manufacture. See PAINT, Manufacture, Mills
 MILLS, Pendulum, Rolling, Metal strips. See STRIPS, Metal, Rolling, Mills, Pendulum

MILLS, Rolling. See ROLLING, Mills

MILLS, Rolling, Aluminium. See ALUMINIUM, Rolling, Mills

MILLS, Rolling, Brass, Strips. See STRIPS, Brass, Rolling, Mills

MILLS, Rolling, Copper, Strips. See STRIPS, Copper, Rolling, Mills

MILLS, Rolling, Rods, Wire manufactures, Cables, Suspension bridges. See BRIDGES, Suspension, Cables, Wires, Manufactures, Rods, Rolling, Mills

MILLS, Rolling, Steel, Bars. See BARS, Steel, Rolling, Mills

MILLS, Rolling, Steel, Beams. See BEAMS, Steel, Rolling, Mills

MILLS, Rolling, Steel, Plates. See PLATES, Steel, Rolling, Mills

MILLS, Rolling, Steel, Rods. See RODS, Steel, Rolling, Mills

MILLS, Rolling, Steel, Strips. See STRIPS, Steel, Rolling, Mills

MILLS, Steel manufactures. See STEEL, Mills

MILLS, Wire manufactures. See WIRES, Manufactures, Mills

MILWAUKEE

See FLATS, Milwaukee

MIMIC DIAGRAMS, Control systems. See CONTROL SYSTEMS, Mimic diagrams

MINERAL DRESSING

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MINERAL DRESSING

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CRUSHING

HYDROCYCLONES

MINERAL DRESSING, Diamonds. See DIAMONDS, Separation

MINERAL DRESSING, Galena. See GALENA, Flotation

MINERAL DRESSING, Graphical analysis

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MINERAL DRESSING, Machines

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MINERAL DRESSING, Ores, Gold. See GOLD, Ores, Dressing

MINERAL DRESSING, Ores, Iron. See IRON, Ores, Concentration

MINERAL DRESSING, Ores, Iron. See IRON, Ores, Preparation

MINERAL DRESSING, Ores, Lead. See LEAD, Ores, Mineral dressing

MINERAL DRESSING, Ores, Tin. See TIN, Ores, Mineral dressing

MINERAL DRESSING, Ores, Uranium. See URANIUM, Ores, Mineral dressing

MINERAL DRESSING, Ores, Zinc. See ZINC, Ores, Mineral dressing

MINERAL DRESSING, Sand, Beaches. See BEACHES, Sand, Mineral dressing

MINERAL DRESSING, Separation, Colour sorting, Photo-electric

Colour sorter for mineral separation [G512M Sortex machine] Mining & Minerals Engng., 1 (Feb 65) p.221-2. il.

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Manufacture and uses of mineral wool, pt.2. Insulation, 9 (Mar/Apr 65) p.78-9. il.

MINERALS, Firing, Ceramics manufactures. See CERAMICS, Manufactures, Firing, Mineralogy

MINERALS, Ores. See ORES, Minerals

MINERALS, Production, New Zealand

Current exploration in New Zealand: summary of "Mineral developments in New Zealand". Mining Magazine, 111 (Dec 64) p.425+

MINERALS, Resources, New Zealand

Mineral potential of New Zealand (summary) A. W. G. Whittle. Mining Magazine, 112 (Apr 65) p.279-80

MINES, Tin. See TIN, Mines

MINIATURE CAMERAS, Medical photography. See MEDICAL PHOTOGRAPHY, Cameras, Miniature

MINIATURE CIRCUITS, Microwaves. See MICROWAVES, Circuits, Miniature

MINIBUSES

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MINING

Related Headings:

BLASTING

GRAVEL, Pits

MINERAL DRESSING

MINES

OFF SHORE DRILLING

PIT-PROPS

PROSPECTING

QUARRYING

ROCK, Drills

MINING—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Particular localities,
Great Britain

Research
 Costs

Problems
Rock mechanics
Safety
Fires
Dust
Effluents
Water

Equipment
Machinery
Vibrators
 Electrical equipment
Electric motors
Batteries
 Instruments
Psychrometers

MINING—SUBHEADINGS—Synopsis—cont.

Technical activities

Work study

Surveying

Engineering

Blasting

Explosives

Winding

Transport

Cars

Conveyors

Communication

Lighting

Ventilation

Drainage

Shafts

Types of mines

Opencast

Moon

By products

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MOTOR CARS-SUBHEADINGS-Synopsis

This synopsis shows, in *italic*, related subheadings which are separated in the alphabetical sequence following.

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Traffic engineering
Transport, Town planning

Technical activities
Design
Dimensions
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- Tests
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 - Wishbones
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- Steering

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- Scrap

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Servicing at home: the VW 1200. Motor (7 Apr 65) p.42-3. il.

MOTOR CARS, Silencers

Silencers and exhaust pipes. Motor (27 Oct 65) p.72-4. il.

MOTOR CARS, Specifications, Recording, Addressing machines

Chassis plates on address plates [Vauxhall Motors Ltd] Reproduction, 2 (Jun 65) p.10-11. il.

MOTOR CARS, Springs, Rubber, Hydraulically connected

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US Ford goes in for volume cold forging [Verson presses at the American Ford works at Sandusky, Ohio.] Metal-working Production, 109 (13 Jan 65) p.72-3. il.

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Driving white steam cars. J. A. Heyser. Light Steam Power, 14 (Jul/Aug 65) p.166-70. il.

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Oldest car in Australia [Thomson] S. Inkster. Light Steam Power, 14 (May/Jun 65) p.125-9. il.

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Strength behind the form. Motor (27 Oct 65) p.57-9. il.

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Telephones on wheels. J.L. Hyatt. P.O. Telecommunications, 17 (Autumn 65) p.36-9. il.

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Totally foreign at Silverstone circuit. Engineering, 199 (11 Jun 65) p.762-3. il.

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Bond three-wheelers. Motor Cycle, 115 (12 Aug 65) p.226-9. il.

MOTOR CARS, Three-wheelers, Types, Bond 875

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Bond Bombshell [875] Motor Cycle, 115 (2 Sep 65) p.302-5. il.

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MOTOR CARS, Three wheelers, Types, Reliant

Reliant three-wheeler: economy, sturdiness and rust-free body. Motor (15 Dec 65) p.36-7. il.

- MOTOR CARS, Three-wheelers, Types, Reliant Regal 3/25**
Reliant Regal 3/25. Motor Cycle, 114 (7 Jan 65) p.14-17. il.
- MOTOR CARS, Traffic engineering**
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- MOTOR CARS, Trailers, Boat**
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- MOTOR CARS, Transmissions, Components, Aluminium, Cleaning**
Dawson cleaning machines installed at Austin works. Machinery, 107 (10 Nov 65) p.1035. il.
- MOTOR CARS, Transmissions, Differentials**
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Spin resistant differential: Borg-Warner unit has built-in resistance to differential action. Engine Design & Application, 1 (Oct 64) p.23-5. il.
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Veromatic installation for operations on gearbox covers [Vero Machine Tool Co. Ltd.] Machinery, 106 (30 Jun 65) p.1443-5. il.
- MOTOR CARS, Transmissions, Housings, Machining, Transfer machines**
Archdale transfer machines recently installed at BMC Longbridge. A. W. Astrop. Machinery, 107 (4 Aug 65) p.250-5. il.
- MOTOR CARS, Transmissions, Joints, Universal**
Universal joints and flexible couplings. Motor (14 Apr 65) p.44-6. il.
- MOTOR CARS, Transmissions, Overdrives**
Laycock overdrives. Automobile Engr., 55 (Apr 65) p.154-9. il.
- MOTOR CARS, Transmissions, Overdrives, Housings, Machining, Transfer machines**
Renault units cut conversion costs by two thirds [Gresham & Craven (Motor Components) Ltd., Walkden] L. H. Sanders. Metalworking Production, 109 (13 Jan 65) p.77-9. il.
- MOTOR CARS, Transmissions, Shafts, Couplings, Flexible**
Triumph propeller shafts: strap-drive coupling and bonded rubber sleeve in propeller shaft. Automobile Engr., 55 (Aug 65) p.365-6. il.
- MOTOR CARS, Transmissions, Torque converter**
A. P. automatic transmission for Minis and 1100s. Autocar (22 Oct 65) p.836-40. il.
Automatic Mini and 1100. Motor (20 Oct 65) p.153-6. il.
Automatic to meet everybody's taste [BMC] Engineering, 200 (22 Oct 65) p.522-3. il.
Automatic transmissions in miniature. Engineer, 220 (22 Oct 65) p.664-6. il.
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- MOTOR CARS, Transport, Town planning**
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Cold rolling produces car body components. Mass Production, 41 (Jan 65) p.47-51. il.
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Guide to tuning equipment specialists. Autocar, 122 (30 Apr 65) p.889-90
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- MOTOR CARS, Types, Alfa Romeo Giulia SS, Road tests**
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- MOTOR CARS, Types, Alfa Romeo Giulia TI**
Alfa Romeo Giulia TI. Engineering, 200 (3 Dec 65) p.710-11. il.
- MOTOR CARS, Types, Alfa Romeo 1750**
Improvised imposter [Zagato-bodied 1750 Alfa Romeo] R. Bell. Motor (17 Nov 65) p.17-18. il.
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- MOTOR CARS, Types, Aston Martin DB5, Road tests**
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- MOTOR CARS, Types, Aston Martin DB6**
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- MOTOR CARS, Types, Austin 1800**
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- MOTOR CARS, Types, Auto Union D.K.W. F102**
1200 cm³ two-stroke saloon car [Auto Union DKW F102] Engineer, 219 (9 Apr 65) p.641-2. il.
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Tisa: Road impressions of a special version of the BMW 1800 T1. B. Cahier. Autocar, 122 (26 Feb 65) p.428-9. il.
- MOTOR CARS, Types, B.M.W. 2000 CS**
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- MOTOR CARS, Types, Bond Equipe GT4S, Road tests**
Bond Equipe GT 4S 1,147 c.c. Autocar, 123 (9 Jul 65) p.59-64. il.
Family grand tourer [Bond Equipe GT4S] Motor (18 Aug 65) p.23-8. il.
- MOTOR CARS, Types, Brough Superior**
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- MOTOR CARS, Types, Buick**
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- MOTOR CARS, Types, Chevrolet Chevelle, Malibu, Road tests**
Chevrolet Chevelle Malibu. Autocar, 122 (15 Jan 65) p.125-9. il.
- MOTOR CARS, Types, Citroen**
Short stroke engine from Citroen. Motor (8 Sep 65) p.48-50. il.
- MOTOR CARS, Types, Citroen (DS21) Pallas M, Road tests**
Citroen (DS21) Pallas M 2,175 c.c. Autocar, 123 (3 Dec 65) p.1187-92. il.
- MOTOR CARS, Types, Citroen ID Super, Road tests**
Citroen ID Super. Motor (28 Jul 65) p.22-6. il.
- MOTOR CARS, Types, Citroen Pallas**
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New Citroen—the Pallas. Autocar, 123 (17 Sep 65) p.544-9. il.
- MOTOR CARS, Types, Daf Daffodil LE, Road tests**
Daffodil LE. Motor (14 Apr 65) p.48-52. il.
- MOTOR CARS, Types, Daihatsu Compagno Berlina, Road tests**
Daihatsu Compagno Berlina. Motor (21 Jul 65) p.22-6. il.
Daihatsu Compagno Berlina 797 c.c. Autocar, 123 (20 Aug 65) p.349-54. il.
- MOTOR CARS, Types, Ferguson (Four wheel drive) Conversions**
Now: 4-w.d. for sports car racing: the new Felday Ferguson 4. Motor (24 Mar 65) p.32-4. il.
- MOTOR CARS, Types, Ferrari**
Three faces of Ferrari. C. Bulmer. Motor (28 Apr 65) p.36-9. il.
- MOTOR CARS, Types, Ferrari 330 GT**
Ferrari 330GT. Autocar, 122 (9 Apr 65) p.699-702. il.
- MOTOR CARS, Types, Fiat 850, Conversions**
Fiat Abarth 1600. B. Cahier. Autocar, 123 (13 Aug 65) p.315-17. il.
- MOTOR CARS, Types, Fiat 1300, Road tests**
Fiat 1300. Motor (7 Jul 65) p.20-4. il.
- MOTOR CARS, Types, Fiat 1500, Road tests**
Fiat 1500 1,481 c.c. Autocar, 122 (21 May 65) p.1005-10. il.
- MOTOR CARS, Types, Fiat 2300S coupé**
Fiat 2300S. Motor (20 Jan 65) p.20-4. il.
- MOTOR CARS, Types, Ford Anglia**
Ford Anglia: 105E and 123E. Motor (10 Feb 65) p.120-1. il.
- MOTOR CARS, Types, Ford Anglia, Road tests**
Four seats without frills. Motor (27 Oct 65) p.33-8. il.
- MOTOR CARS, Types, Ford Consul Corsair**
Ford upgrade Corsair with V-4 engine. Autocar, 123 (1 Oct 65) p.ii+. il.
Separate identity for Ford Corsair. Engineering, 200 (1 Oct 65) p.428-9. il.
V-power for the Corsair: new Ford V-4 engine in 1,700 and 2,000 c.c. sizes. Motor (6 Oct 65) p.77+. il.
- MOTOR CARS, Types, Ford Consul Corsair GT, Road tests**
Ford Corsair GT. Motor (27 Jan 65) p.12-16. il.
Ford Corsair GT 1,996 c.c. Autocar, 123 (10 Dec 65) p.1227-32. il.
- MOTOR CARS, Types, Ford Consul Corsair V-4 de luxe, Road tests**
V for verve: Ford Corsair V-4 de luxe road test. Motor (8 Dec 65) p.19-24. il.
- MOTOR CARS, Types, Ford Consul Cortina 1200, Road tests**
Ford Cortina 1200. Motor (10 Feb 65) p.28-32. il.
- MOTOR CARS, Types, Ford Consul Cortina GT**
Two at £750: Morris Mini-Cooper S & Ford Cortina GT. G. Howard & J. Chisholm. Autocar, 123 (27 Aug 65) p.386-91. il.
- MOTOR CARS, Types, Ford Consul Cortina GT, Road tests**
Ford Cortina GT 1,500 c.c. Autocar, 122 (8 Jan 65) p.58-62. il.
- MOTOR CARS, Types, Ford Consul Cortina Super 1500**
Ford Cortina 1500: (export model) M. Bowler. Motor (18 Aug 65) p.15-19. il.
- MOTOR CARS, Types, Ford Taunus 20M, Road tests**
Ford Taunus 20M 1,998 cc. Autocar, 123 (2 Jul 65) p.11-16. il.
- MOTOR CARS, Types, Ford Zodiac Executive**
Ford Executive Zodiac. Autocar, 122 (9 Apr 65) p.713-18. il.
- MOTOR CARS, Types, Glas**
Glas—a new prestige car. O. G. W. Fersen. Autocar, 123 (24 Sep 65) p.613-15. il.
- MOTOR CARS, Types, Glas 1300 GT**
Glas 1300 GT. O. G. W. Fersen. Autocar, 123 (27 Aug 65) p.410-11. il.
- MOTOR CARS, Types, Gordon-Keeble GK1, Road tests**
Gordon-Keeble GK1 5,355 c.c. Autocar, 122 (19 Feb 65) p.372-6. il.

- MOTOR CARS, Types, Grifo A3C**
Grifo A3C. Autocar, 122 (22 Jan 65) p.184-6. il.
- MOTOR CARS, Types, Hillman Husky**
Hillman Husky. Motor (6 Jan 65) p.108-9. il.
- MOTOR CARS, Types, Hillman, Imp, Conversions**
Costly improvement: fast 998 c.c. version from Nathan. Motor (24 Feb 65) p.112. il.
Hartwell Group 4 Imp 998 c.c. Autocar, 123 (26 Nov 65) p.1142-3. il.
Nathan-tuned and Hartwell Stage III Hillman Imps. Autocar, 122 (30 Apr 65) p.872-4. il.
Taurus-tuned Hillman Imp. Autocar, 123 (30 Jul 65) p.226-7. il.
Variations on the "Imp". Automotive Body Engng., 135 (Mar 65) p.10-11. il.
- MOTOR CARS, Types, Hillman Super Imp, Road tests**
Hillman Super Imp 875 c.c. Autocar (22 Oct 65) p.849+. il.
- MOTOR CARS, Types, Honda**
Rise of the Honda sun. E. S. Young. Motor (26 May 65) p.24-5. il.
- MOTOR CARS, Types, Humber Imperial, Road tests**
Humber Imperial. Motor (30 Jun 65) p.30-34. il.
Humber Imperial 2,965 c.c. Autocar, 122 (11 Jun 65) p.1161-6. il.
- MOTOR CARS, Types, Jaguar 3.8S**
Sporting executive: Jaguar 3.8S Manual. Motor (11 Aug 65) p.29-31. il.
- MOTOR CARS, Types, Jaguar E type 4.2 litres, Road tests**
Jaguar 4.2. E-type. Autocar, 122 (14 May 65) p.953-8. il.
- MOTOR CARS, Types, Jaguar, Mk 10. 4.2 litres, Road tests**
Jaguar 4.2 Mark 10. overdrive 4,235 c.c. Autocar, 123 (8 Oct 65) p.689-93. il.
- MOTOR CARS, Types, Jaguar, Mk 10. 4.2 litres automatic, Road tests**
Jaguar Mk X 4.2 (automatic) Motor (14 Jul 65) p.22-6. il.
- MOTOR CARS, Types, Jaguar S-type, Road tests**
Jaguar S-type 3.8 (overdrive) 3,781 c.c. Autocar, 122 (19 Mar 65) p.561-6. il.
- MOTOR CARS, Types, Jensen C-V8, Road tests**
Jensen C-V8. Autocar, 122 (16 Apr 65) p.751-6. il.
- MOTOR CARS, Types, Jensen C-V8 FF**
Four-wheel drive for Jensen C-V8 FF. Autocar, 123 (15 Oct 65) p.743-5. il.
Revolutionary Jensen. Motor (13 Oct 65) p.33-5. il.
- MOTOR CARS, Types, Jensen Interceptor**
Jensen Interceptor. Autocar, 123 (5 Nov 65) p.966-7. il.
- MOTOR CARS, Types, Lancia Flaminia Coupé 3B, Road tests**
Lancia Flaminia Coupé 3B. Autocar, 122 (4 Jun 65) p.1111-16. il.
- MOTOR CARS, Types, Lancia Flavia Zagato Sport, Road tests**
Lancia Flavia Zagato sport. Autocar, 122 (12 Mar 65) p.514-18. il.
- MOTOR CARS, Types, Leyland Eight**
Magnificent Leyland Eight. Motor (10 Mar 65) p.28-9. il.
- MOTOR CARS, Types, Lotus Elan Coupé**
Lotus Elan Coupé. Autocar, 123 (1 Oct 65) p.664. il.
- MOTOR CARS, Types, M.G. MGB 1800, Road tests**
M.G. MGB 1,798 c.c. Autocar, 122 (12 Feb 65) p.330-4. il.
M.G.B. Motor (6 Jan 65) p.20-4. il.
- MOTOR CARS, Types, M.G. Magnette Mk.4 Automatic, Road tests**
M.G. Magnette MK. IV Automatic. Motor (13 Oct 65) p.37-42. il.
- MOTOR CARS, Types, Marcos 1800**
Marcos 1800 bespoke G.T. eye-catcher. Autocar, 122 (4 Jun 65) p.1126-9. il.
Marcos marine ply sports cars. Engineering, 200 (9 Jul 65) p.43-4. il.
Putting the Marcos 1800 through its paces. Engineering, 200 (9 Jul 65) p.45. il.
- MOTOR CARS, Types, Marcos 1800, Road tests**
Marcos 1800. Motor (16 Jun 65) p.42-6. il.
- MOTOR CARS, Types, Mercedes-Benz**
Distinction in new Mercedes-Benz range. Engineering, 200 (20 Aug 65) p.231. il.
Introducing the Mercedes-Benz 250: entirely new body style for the 2.5 litre and 3-litre cars. Autocar, 123 (13 Aug 65) p.299+. il.
New 'upper class' Mercedes: 250S and SE star in 17 model range. Motor (11 Aug 65) p.13-15. il.
- MOTOR CARS, Types, Mercedes-Benz 190D, Road tests**
Mercedes-Benz 190D. Autocar, 122 (5 Feb 65) p.274-8. il.
- MOTOR CARS, Types, Mercedes-Benz 220b, Road tests**
Mercedes-Benz 220b. Motor (17 Mar 65) p.24-8. il.
- MOTOR CARS, Types, Mercedes-Benz 220SEb, Road tests**
Mercedes-Benz 220SE automatic 2,195 c.c. Autocar, 122 (7 May 65) p.907-12. il.
- MOTOR CARS, Types, Mercedes-Benz 230 SL Automatic, Road tests**
Mercedes Benz 230SL. Motor (2 Jun 65) p.16-20. il.
- MOTOR CARS, Types, Mercedes-Benz 600**
Ad infinitum? pt.2 [Mercedes-Benz 600] Motor (25 Aug 65) p.18-20. il.
Big performer [Mercedes 600 Saloon] Autocar, 123 (5 Nov 65) p.980-3. il.
- MOTOR CARS, Types, Morgan**
Borrowed time: mystique of the Morgan. P. Garnier. Autocar, 123 (10 Sep 65) p.492-5. il.
- MOTOR CARS, Types, Morris Mini**
Mini million. H. Hastings. Motor (3 Feb 65) p.30-2. il.
1,000,000 Minis: looking back over five years. Autocar, 122 (5 Feb 65) p.268-9. il.
- MOTOR CARS, Types, Morris Mini-Cooper, Conversions**
Push-me-pull-you [front-wheel drive, rear-engined car in captivity] M. Bowler. Motor (31 Mar 65) p.91-2. il.
- MOTOR CARS, Types, Morris Mini-Cooper S 1071 cc**
Two at £750: Morris Mini-Cooper S & Ford Cortina G.T. G. Howard & J. Chisholm. Autocar, 123 (27 Aug 65) p.386-91. il.
- MOTOR CARS, Types, Morris Mini-Cooper S 1275 cc, Conversions**
Broadspeed Cooper S. Autocar, 123 (17 Dec 65) p.1304-5.
- MOTOR CARS, Types, N.S.U.**
NSU Typ 110: Prinz 1000 TT. Autocar, 123 (3 Sep 65) p.465-7. il.
- MOTOR CARS, Types, N.S.U. Prinz 1000L**
NSU Prinz 1000L. Autocar, 123 (23 Jul 65) p.153-8. il.
- MOTOR CARS, Types, N.S.U. Prinz 1000 LS, Road tests**
Lively litre's worth [NSU Prinz 1000 LS] Motor (10 Nov 65) p.21-6. il.
- MOTOR CARS, Types, N.S.U. Spider Wankel**
First half year with NSU Wankel. S. Bladon. Autocar, 123 (17 Dec 65) p.1276-80. il.
- MOTOR CARS, Types, N.S.U. Spider Wankel, Road tests**
NSU Wankel Spider. Autocar, 123 (3 Sep 65) p.441-6. il.
NSU Wankel Spider. Motor (19 May 65) p.28-32. il.
- MOTOR CARS, Types, Napier**
57 not out: how a Napier racer has been given another innings. R. Baker. Autocar, 122 (28 May 65) p.1068-71. il.
57 not out, pt.2: how a Napier racer has been given another innings. R. Baker. Autocar, 122 (18 Jun 65) p.1225-8. il.
- MOTOR CARS, Types, Nissen-Sylvia**
New lines from Japan: Toyota and Nissan enter GT market. Motor (7 Apr 65) p.40-1. il.
- MOTOR CARS, Types, Oldsmobile Toronado**
Front-wheel-drive Oldsmobile Coupe. Engineer, 220 (8 Oct 65) p.614-15. il.
New Oldsmobile has it all up front. Engineering, 200 (1 Oct 65) p.430-1. il.
Oldsmobile Toronado. Autocar, 123 (24 Sep 65) p.598-600. il.

MOTOR CARS, Types, Oldsmobile Toronado—cont.

Toronado—seven litres with front wheel drive. E. Nielssen. Motor (29 Sep 65) p.17-20. il.

MOTOR CARS, Types, Opel

New Opel Kadett & Rekord engine. Autocar, 123 (3 Sep 65) p.438+. il.

Power and variety from Opel. Motor (1 Sep 65) p.25-6. il.

MOTOR CARS, Types, Opel Diplomat, Road tests

Opel Diplomat 4,638 c.c. Autocar, 123 (6 Aug 65) p.253-8. il.

MOTOR CARS, Types, Peugeot 204

New small Peugeot. Motor (21 Apr 65) p.17-21. il.

Peugeot 204. Automotive Design Engng., 4 (2 Jun 65) p.86-8. il.

Peugeot turn transverse. Engineering, 199 (23 Apr 65) p.535. il.

Peugeot 204. Autocar, 122 (30 Apr 65) p.848-51. il.

Peugeot 204—worth waiting for. Autocar, 122 (23 Apr 65) p.796-7. il.

Peugeot "204", pt.2. Engineer, 219 (30 Apr 65) p.789-90. il.

MOTOR CARS, Types, Peugeot 404

Peugeot 404 Coupé impressions. Autocar, 123 (6 Aug 65) p.286-7. il.

MOTOR CARS, Types, Peugeot 404 Diesel, Road tests

Peugeot 404 Diesel 1,948 c.c. Autocar, 123 (26 Nov 65) p.1133-7. il.

MOTOR CARS, Types, Peugeot 404C, Road tests

First-class job: Peugeot 404C road test. Motor (1 Dec 65) p.19-24. il.

MOTOR CARS, Types, Peugeot 404 KF2, Road tests

Peugeot 404 KF2 Super Luxe 1,618 c.c. Autocar, 122 (23 Apr 65) p.803-8. il.

MOTOR CARS, Types, Pontiac

Chevrolet, Pontiac, Buick. Autocar, 123 (1 Oct 65) p.662-3. il.

MOTOR CARS, Types, Pontiac Parisienne, Road tests

Pontiac Parisienne. Motor (3 Mar 65) p.26-30. il.

MOTOR CARS, Types, Porsche 911

Porsche 911. B. Cahier. Autocar, 123 (2 Jul 65) p.18-19. il.

MOTOR CARS, Types, Porsche 912, Road tests

Porsche 912 1,582 c.c. Autocar, 123 (24 Sep 65) p.587-92. il.

MOTOR CARS, Types, Reliant Scimitar, Road tests

Improving the breed [Reliant Scimitar] Motor (25 Aug 65) p.21-6. il.

Reliant Scimitar 2,553 c.c. Autocar, 123 (30 Jul 65) p.207-12. il.

MOTOR CARS, Types, Renault Caravelle, Road tests

Renault Caravelle 1108 c.c. Autocar, 123 (5 Nov 65) p.970-4. il.

MOTOR CARS, Types, Renault R8 1100, Road tests

Small car, big performance [Renault 1100] Motor (29 Sep 65) p.21-6. il.

MOTOR CARS, Types, Renault R8 Gordini, Road tests

Renault 8 Gordini 1,108 c.c. Autocar, 122 (18 Jun 65) p.1219-23. il.

Renault 8 Gordini. Motor (4 Aug 65) p.22-6. il.

MOTOR CARS, Types, Renault R16

Renault 16. Autocar, 122 (22 Jan 65) p.162-8. il.

Renault 16. Motor (20 Jan 65) p.26-31. il.

Renault "16" passenger car. Engineer, 219 (22 Jan 65) p.192-4. il.

Renault 16: the 4L gets sophistication. Engineering, 199 (22 Jan 65) p.111-12. il.

Renault R16: structural digest. Automotive Design Engng., 4 (Feb 65) p.86-7. il.

Structural rigidity featured in completely new French car [Renault "R 16".] Automotive Body Engng., 135 (Feb 65) p.28-30. il.

MOTOR CARS, Types, Riley Kestrel

Variations on a theme: Riley and Wolseley join the 1100 line-up. Motor (29 Sep 65) p.28-9. il.

Wolseley 1100 and Riley Kestrel. Autocar, 123 (1 Oct 65) p.632-4. il.

MOTOR CARS, Types, Riley Kestrel, Road tests

Spacious and sporting [Riley Kestrel] Motor (6 Oct 65) p.69-74. il.

MOTOR CARS, Types, Rolls Royce Silver Shadow

New Rolls-Ingenuity to match quality. Engineering, 200 (8 Oct 65) p.452. il.

Rolls-Royce and Bentley: London Motor Show. Automobile Engr., 55 (Nov 65) p.475-80. il.

Rolls-Royce Silver Shadow. Autocar, 123 (8 Oct 65) p.699-701. il.

Towards perfection: ten years of development behind the new Rolls-Royce and Bentley. C. Bulmer. Motor (6 Oct 65) p.57-63. il.

MOTOR CARS, Types, Rover

Pedigree partners. C. Posthumus. Motor (18 Aug 65) p.20-2. il.

MOTOR CARS, Types, Rover 3 litre Mk.3

Rover 3-litre Mk 111. Autocar, 123 (1 Oct 65) p.657. il.

MOTOR CARS, Types, Rover B.R.M.

Not only—but also [Rover B.R.M.] Autocar, 123 (24 Sep 65) p.594-7. il.

Power without pistons [Rover B.R.M.] H. Hastings. Motor (22 Sep 65) p.17-20. il.

MOTOR CARS, Types, Rover B.R.M., Road tests

Glimpse of the future [Rover-B.R.M.] Motor (22 Sep 65) p.21-6. il.

MOTOR CARS, Types, Rover T3 coupé

Reverture to Solly Hull. R. Barker & J. Marsden. Autocar, 121 (25 Dec 64) p.1288-92. il.

MOTOR CARS, Types, Saab

Saab. Motor (20 Jan 65) p.98-9. il.

MOTOR CARS, Types, Saab Sport, Road tests

Saab Sport. Motor (17 Feb 65) p.20-4. il.

Saab Sport 841 c.c. Autocar, 122 (26 Feb 65) p.418-22. il.

MOTOR CARS, Types, Singer

Singers for the new season. Motor (15 Sep 65) p.36-7. il.

Singers have new Rootes engine. Autocar, 123 (17 Sep 65) p.526-7. il.

MOTOR CARS, Types, Singer Chamois

Singer Chamois, pt.1: 875 cm³ engine. Automobile Engr., 55 (Apr 65) p.128-38. il.

Singer Chamois, pt.2: transmission, suspension and steering. Automobile Engr., 55 (May 65) p.170-8. il.

Singer Chamois, pt.3: brakes, bodywork, heating and electrical equipment. Automobile Engr., 55 (Jun 65) p.280-7. il.

MOTOR CARS, Types, Singer Chamois, Road tests

Singer Chamois. Motor (13 Jan 65) p.22-6. il.

MOTOR CARS, Types, Singer Vogue, Road tests

Singer Vogue. Motor (31 Mar 65) p.50-4. il.

MOTOR CARS, Types, Skoda 1000 MB, Road tests

Skoda 1000 MB. Motor (23 Jun 65) p.16-20. il.

Skoda 1000MB 988 c.c. Autocar, 122 (25 Jun 65) p.1275-80. il.

MOTOR CARS, Types, Standard-Triumph 1300

Front-wheel drive by Triumph. C. Bulmer. Motor (20 Oct 65) p.158-62. il.

Front-wheel-drive Triumph "1300". Engineer, 220 (15 Oct 65) p.626-7. il.

Front-drive Triumph 1300. Automotive Design Engng., 4 (Nov 65) p.91. il.

Standard-Triumph: London Motor Show. Automobile Engr., 55 (Nov 65) p.480-3. il.

Triumph in front wheel drive [Triumph 1300] Engineering, 200 (22 Oct 65) p.524-5. il.

Triumph 1300 de luxe. Autocar, 123 (15 Oct 65) p.ii+. il.

MOTOR CARS, Types, Standard-Triumph 2000

Not for sale: competition Triumph 2000 lives a hard and noisy life. R. Bell. *Motor* (8 Sep 65) p.30-1. il.

MOTOR CARS, Types, Standard-Triumph 2000 (Overdrive)

Triumph 2000 (overdrive). C. Bulmer. *Motor* (3 Nov 65) p.28-32. il.

MOTOR CARS, Types, Standard-Triumph 2000, Road tests

Triumph 2000 automatic. *Motor* (26 May 65) p.16-20. il.

MOTOR CARS, Types, Standard-Triumph Spitfire

Triumph Spitfire. R. Bell. *Motor* (3 Mar 65) p.11-15. il.

MOTOR CARS, Types, Standard-Triumph Spitfire Mk.2

Improved Triumph sports cars announced at Geneva show. *Motor* (10 Mar 65) p.25-7. il.

Triumph TR4A and Spitfire Mk.2. *Autocar*, 122 (12 Mar 65) p.524-8. il.

MOTOR CARS, Types, Standard-Triumph TR4A

I.B.S. for Triumph TR 4A. *Automotive Design Engrng.*, 5 (Apr 65) p.90. il.

Improved Triumph sports cars announced at Geneva show. *Motor* (10 Mar 65) p.25-7. il.

Triumph TR4A and Spitfire Mk.2. *Autocar*, 122 (12 Mar 65) p.524-8. il.

MOTOR CARS, Types, Standard-Triumph TR4A, Road tests

With an independent air [Triumph TR4A] *Motor* (15 Sep 65) p.19-24. il.

MOTOR CARS, Types, Standard-Triumph TR4A IRS, Road tests

Triumph TR4A IRS. *Autocar*, 122 (28 May 65) p.1053-8. il.

MOTOR CARS, Types, Standard-Triumph Vitesse, Convertible, Road tests

Triumph Vitesse Convertible 1,596 c.c. *Autocar*, 123 (17 Sep 65) p.535-40. il.

MOTOR CARS, Types, Steyr-Puch 650 TR

Steyr-Puch 650 TR rally car. *Autocar*, 123 (20 Aug 65) p.362-4. il.

MOTOR CARS, Types, Sunbeam Tiger

Rootes put a Tiger in their range. *Engineering*, 199 (28 May 65) p.697-8. il.

MOTOR CARS, Types, Sunbeam Tiger, Road tests

Sunbeam Tiger. *Motor* (28 Apr 65) p.42-6. il.

Sunbeam Tiger 260 4,261 c.c. *Autocar*, 122 (30 Apr 65) p.855-60. il.

MOTOR CARS, Types, Toyota

Toyota motor. E. S. Young. *Autocar*, 123 (23 Jul 65) p.144-6. il.

MOTOR CARS, Types, Toyota Sports 800

New lines from Japan: Toyota and Nissan enter GT market. *Motor* (7 Apr 65) p.40-1. il.

MOTOR CARS, Types, Vanden Plas Princess 1100, Road tests

Vanden Plas Princess 1100. *Autocar*, 122 (1 Jan 65) p.12-16. il.

MOTOR CARS, Types, Vauxhall

New Vauxhalls. *Motor* (20 Oct 65) p.193-6. il.

Tuned engine for Viva: two 90 models: Victor 101 embellished. *Autocar*, 123 (15 Oct 65) p.756-7. il.

Vauxhall: London Motor Show. *Automobile Engrng.*, 55 (Nov 65) p.483-4. il.

MOTOR CARS, Types, Vauxhall Cresta

Vauxhall Cresta. *Autocar* (22 Oct 65) suppl. p.ii-vii. il.

MOTOR CARS, Types, Vauxhall Cresta, Road tests

Ton-up automatic [Vauxhall Cresta automatic] *Motor* (25 Aug 65) p.35-7. il.

Vauxhall Cresta. *Motor* (24 Mar 65) p.26-30. il.

MOTOR CARS, Types, Vauxhall Cresta de Luxe Powerglide, Road tests

Vauxhall Cresta de Luxe Powerglide. *Autocar*, 123 (19 Nov 65) p.1076-81. il.

MOTOR CARS, Types, Vauxhall Cresta de Luxe, Road tests

Big and fast: Vauxhall Cresta de Luxe. *Motor* (24 Nov 65) p.19-24. il.

MOTOR CARS, Types, Vauxhall VX4/90, Road tests

Vauxhall VX4/90 1,594 c.c. *Autocar*, 123 (1 Oct 65) p.637-42. il.

MOTOR CARS, Types, Vauxhall Velox, Road tests

Vauxhall Velox 3,294 c.c. *Autocar* (26 Mar 65) p.605-10. il.

MOTOR CARS, Types, Vauxhall Victor 101 de luxe, Road tests

Vauxhall Victor 101 de luxe. *Motor* (24 Feb 65) p.38-42. il.

MOTOR CARS, Types, Vauxhall Viva

Vauxhall Viva: 12,000 mile user report. B. Warkin. *Motor* (31 Mar 65) p.41-5. il.

MOTOR CARS, Types, Vauxhall Viva G.T., Conversions

Brabham Viva GT 1,057 c.c. *Autocar*, 122 (14 May 65) p.974-5. il.

MOTOR CARS, Types, Vauxhall Viva SL90, Road tests

Quicker and quieter: Vauxhall Viva SL90. *Motor* (15 Dec 65) p.19-24. il.

Vauxhall Viva SL90. *Autocar*, 123 (17 Dec 65) p.1284-9. il.

MOTOR CARS, Types, Volkswagen

Fast-back Volks: new shape and bigger engines from VW. *Motor* (4 Aug 65) p.13-15. il.

New and improved VWs: fastback 1600TL: alternative 1300 and 1600 models: disc brakes for 1500 and 1600. *Autocar*, 123 (6 Aug 65) p.259-61. il.

MOTOR CARS, Types, Volkswagen 1200

Volkswagen 1200. *Motor* (7 Apr 65) p.28-32. il.

MOTOR CARS, Types, Volvo 131, Road tests

Volvo 131 1,778 c.c. *Autocar*, 122 (2 Apr 65) p.647-52. il.

MOTOR CARS, Types, Wolseley 1100

Variations on a theme: Riley and Wolseley join the 1100 line-up. *Motor* (29 Sep 65) p.28-9. il.

Wolseley 1100 and Riley Kestrel. *Autocar*, 123 (1 Oct 65) p.632-4. il.

MOTOR CARS, Types, Wolseley 1100, Road tests

Wolseley 1100 1,098 c.c. *Autocar*, 123 (15 Oct 65) p.746-50. il.

MOTOR CARS, Types, Wolseley 6/110 Mk.2 Automatic, Road tests

Wolseley 6/110 Automatic. *Motor* (12 May 65) p.52-6. il.
Wolseley 6/110 Mk. II Automatic 2,912 c.c. *Autocar*, 123 (27 Aug 65) p.395-400. il.

MOTOR CARS, Types, Wolseley Hornet, Road tests

Mini with punch and polish [Wolseley Hornet] *Motor* (8 Sep 65) p.21-6. il.

MOTOR CARS, Tyres

High speed tyres. *Autocar*, 122 (4 Jun 65) p.1118-21. il.
Tyres. R. T. Byford. *Mass Production*, 41 (Nov 65) p.113-17. il.

MOTOR CARS, Tyres, Cords, Rubber, Reinforced-Glass fibre

Glass-fibre reinforcement for rubber. *Applied Plastics*, 7 (Dec 64) p.26-7. il.

MOTOR CARS, Tyres, Manufactures

How Firestone make tyres. L. J. K. Setright. *Mass Production*, 41 (Nov 65) p.83-7. il.

MOTOR CARS, Tyres, Remoulded

Remoulds: do they save you money? *Motor* (7 Jul 65) p.32-5. il.

MOTOR CARS, Tyres, Road adhesion, Tests

Tightening grip: old tyres and new put to the test. C. Bulmer. *Motor* (28 Apr 65) p.33-5. il.

MOTOR CARS, Tyres, Studs, Tungsten carbide

Coming to grips: studded tyres can keep you moving. *Motor* (17 Nov 65) p.28-9. il.

MOTOR CARS, Upholstery

Some aspects of trimming—old and new fashions. *Automotive Body Engrng.*, 135 (Mar 65) p.8-9

MOTOR CARS, Upholstery, Fabrics, Degradation, Light

Du Pont on degradation: progress in sunlight and chemical resistance of textiles and plastics. B. F. Faris. *Skinner's Record*, 39 (Aug 65) p.637+

MOTOR CARS, Upholstery, Plastics, Degradation, Light

Du Pont on degradation: progress in sunlight and chemical resistance of textiles and plastics. B. F. Faris. *Skinner's Record*, 39 (Aug 65) p.637+

MOTOR CARS, Upholstery, Thermoplastics

Trends in seating for comfort and safety. F. W. Babbs. Rubber & Plastics Age, 46 (Nov 65) p.1270-1. il. ref.

MOTOR CARS, Ventilation

Heating and ventilation. Motor (17 Nov 65) p.52-4. il.

MOTOR CARS, Washing, Plant

Another kind of "Magic Circle": novel car washing invention can help firms' transport departments [Magic Circle Automatic Car Wash] J. Harwood. Works Management, 18 (Sep 65) p.28-9. il.

MOTOR CARS, Wheels, Balancing

Wheel balancing: theory and practice. Motor (26 May 65) p.30-2. il.

MOTOR CARS, Wheels, Hubs, Assembly, Machines

Gilman machine for assembling brake drums and wheel hubs. Machinery, 107 (3 Nov 65) p.982-3. il.

MOTOR CARS, Wheels, Manufactures

Dunlop wheel production. Welding & Metal Fabrication, 33 (Jun 65) p.234-9. il.

MOTOR CARS, Windscreens, Wipers

Windscreen wiper blade [Trico 'Speedblade'] Mass Production, 41 (Aug 65) p.41

MOTOR CARS, Wishbones, Assembly

Automatic assembly: Renault machine used in the manufacture of Vauxhall Viva upper wishbones. Automobile Engr., 55 (Jan 65) p.28-31. il.

MOTOR COACHES

A.E.C. swift and sure. J. H. Fielder. Transport World (Nov 65) p.38-9. il.

A.E.C. Swift MP2R with Willowbrook 53-seat bus body. A. A. Townsin. Bus & Coach, 37 (Dec 65) p.468-70. il.

A.E.C. Swift with Willowbrook service bus body. E. L.

Cornwell. Passenger Transport, 128 (Dec 65) p.534-8. il.

Air-conditioned coaches for overland tours to India [Guy/Harrington Legionnaire 45-seaters] Passenger Transport, 128 (May 65) p.206-7. il.

Albion Viking VK3L with Alexander Y-type 40-seat coach body. A. A. Townsin. Bus & Coach, 37 (Nov 65) p.406-10. il.

Bedford CAL with Martin Walter Dormobile 11-seat coach body. A. R. Bunting & A. A. Townsin. Bus & Coach, 37 (Oct 65) p.366-70. il.

Design for double-deck express coaches. E. G. Price. Transport World (Feb 65) p.20+. il.

Ford rationalizes its passenger range. A. A. Townsin. Bus & Coach, 37 (Aug 65) p.295-7. il.

Impressions of the new Bedford VAM. J. H. Fielder. Transport World (Sep 65) p.25. il.

It's a changing world: bus and coach styling must keep in tune with the times. A. A. Townsin. Bus & Coach, 37 (Nov 65) p.394-8. il.

London Transport new buses & coaches. Transport World (Feb 65) p.47. il.

London Transport's new vehicles. Passenger Transport, 128 (Mar 65) p.106-7. il.

MCW's Topaz II coach—and why. Passenger Transport, 128 (May 65) p.210-12. il.

Making haste slowly [Gearboxes, brakes, suspensions] A. A. Townsin. Bus & Coach, 37 (17 Nov 65) p.439-42. il.

Mass-produced integral single-decked PSVs [Mercedes-Benz] J. F. Moon. Automotive Design Engr., 4 (Dec 65) p.72+. il.

Road test of Albion Viking-Alexander bus. R. D. Cater. Commercial Motor, 122 (12 Nov 65) p.119+. il.

New and improved coaches by Ford. Transport World (Aug 65) p.24+. il.

New models from Mercedes-Benz. Transport J., 24 (12 Feb 65) p.157. il.

New p.s.v. by Mercedes-Benz. J. F. Moon. Transport World (Jan 65) p.15. il.

Strachans and Willowbrook bodies for London's new Single-deckers: standard RM Routemaster production to cease this year. Commercial Motor, 120 (29 Jan 65) p.28+. il.

MOTOR COACHES—cont

This vehicle will help solve the rural bus problem [Dennis "Pax 11A"] Transport J., 24 (10 Sep 65) p.774-6. il.

Which way is the wind blowing? Bus & Coach, 37 (17 Nov 65) p.425-33. il.

MOTOR COACHES, Bodies

British touring coach bodywork. Commercial Motor, 122 (1 Oct 65) p.84+. il.

Special bodywork for new Ford chassis. Passenger Transport, 128 (Aug 65) p.340-43. il.

Varied body styles for the new Ford p.s.v. chassis. Transport J., 24 (13 Aug 65) p.686-8. il.

MOTOR COACHES, Bodies, Maintenance

Looking after bodywork in a mixed fleet [W. Alexander and Sons (Midland) Ltd.] A. A. Townsin. Bus & Coach, 37 (17 Nov 65) p.447-50. il.

MOTOR COACHES, Bodies, Painting

Fifty years of bus and coach painting. J. H. Barbour. Paint Technology, 29 (May 65) p.27-9. il.

MOTOR COACHES, Chassis

A.E.C. swift, pt.3: rear hub assemblies, rear suspension, front suspension, steering gear and linkage, braking system, chassis frame and electrical system. Automobile Engr., 55 (Sep 65) p.384-91. il.

British passenger chassis: buyers' guide. Commercial Motor, 122 (1 Oct 65) p.78+. il.

New Bedford PSV chassis [VAM] Passenger Transport, 128 (Jul 65) p.296-8. il.

New Ford passenger chassis [R192] R. D. Cater. Commercial Motor, 121 (23 Jul 65) p.60-1. il.

New PSV chassis from Ford. Passenger Transport, 128 (Aug 65) p.338-9. il.

New passenger chassis for Bedford stable: Vauxhall's VAM Transport World (Jun 65) p.14-15. il.

New 'Viking' rear-engined chassis for p.s.v. duties. Transport J., 24 (9 Jul 65) p.598-9. il.

Opposite solutions to the same problem. A. A. Townsin. Bus & Coach, 37 (Jul 65) p.250-3. il.

Rear-engined Albion bus/coach chassis. Passenger Transport, 128 (Jul 65) p.304-5. il.

Rear-engined passenger chassis from Albion. Transport World (Jul 65) p.12-13. il.

Rear-engined Viking from Albion. A. J. P. Wilding. Commercial Motor, 121 (2 Jul 65) p.58-61. il.

MOTOR COACHES, Communications, Radio

Calling all coaches. J. R. Southgate. Transport World (Jun 65) p.16-17. il.

MOTOR COACHES, Decoration

That finishing touch for coaches. C. D. Yeates. Transport World (Feb 65) p.30-2. il.

MOTOR COACHES, Diesel engines

A.E.C. Swift, pt.1: engine. Automobile Engr., 55 (Jul 65) p.302-8. il.

MOTOR COACHES, Doors, Folding

Coaches behind the Iron Curtain. A. Hermann. Automotive Design Engr., 4 (Sep 65) p.94-5. il.

MOTOR COACHES, Engines

More power, vees and dry-liners. A. Bunting. Bus & Coach, 37 (17 Nov 65) p.434-8. il.

MOTOR COACHES, Heating

Development in bus and coach heating and ventilating systems. B. J. Kearsy. Automotive Design Engr., 4 (Jul 65) p.60-1. il.

Heating coaches efficiently. R. H. Dawson. Bus & Coach, 37 (Apr 65) p.123-6. il.

Heating without plumbing. A. K. Polson. Bus & Coach, 37 (Dec 65) p.461-3. il.

MOTOR COACHES, History

60 years of bus development [Birmingham Midland Motor Omnibus Co. Ltd.] Transport J., 23 (Dec 64) p.634-6. il.

MOTOR COACHES, Maintenance

Keeping a 30-vehicle fleet in top condition [Yates Tours Ltd, Runcorn] M. Clements. *Bus & Coach*, 37 (Jan 65) p.5-7. il.

Maintenance with the personal touch [Maidstone Corporation transport department] P. Wallage. *Bus & Coach*, 37 (17 Nov 65) p.451-4. il.

Maintenance without paper work [Alpha Coaches (Brighton) Ltd] P. Wallage. *Bus & Coach*, 37 (Jan 65) p.2-4. il.

Making sure of a first-time pass [Valiant Direct Coaches]

R. D. Cater. *Commercial Motor*, 121 (9 Jul 65) p.64+. il. Southdown is equipped to tackle anything. P. Wallage. *Bus & Coach*, 37 (17 Nov 65) p.443-6. il.

MOTOR COACHES, Manufactures

Quantity yet variety [Mercedes-Benz C 302] J. F. Moon. *Bus & Coach*, 37 (Sep 65) p.310-17. il.

MOTOR COACHES, Manufactures, Great Britain

Specification's: annual review. *Bus & Coach*, 37 (17 Nov 65) p.455-8

MOTOR COACHES, Operation

At the sign of the leaping leopard. W. R. Lang. *Passenger Transport*, 128 (Jul 65) p.308-9

Extended tours mystique. J. Scalloway. *Transport World* (Sep 65) p.22-3. il.

MOTOR COACHES, Operation, Cumberland

Over the top with Wright Bros. of Alston. *Commercial Motor*, 122 (27 Aug 65) p.52+. il.

MOTOR COACHES, Operation, Japan

Big engines for motorway work. A. Havard.

Commercial Motor, 122 (20 Aug 65) p.64-6. il.

MOTOR COACHES, Operation, Northumberland

Over the top with Wright Bros. of Alston. *Commercial Motor*, 122 (27 Aug 65) p.52+. il.

MOTOR COACHES, Operation, Norway

Handling holiday-makers the Norwegian way. W. Weage.

Bus & Coach, 37 (Sep 65) p.318-21. il.

MOTOR COACHES, Operation, U.S.A.

Coaching U.S. style [Continental Trailways] H. G. Jarman. *Transport World* (Feb 65) p.34-5. il.

MOTOR COACHES, Seats

Driver and passenger seating requirements for long distance coaches. A. J. Adams. *Automotive Design Engng.*, 4 (Jul 65) p.59. il.

MOTOR COACHES, Suspensions, Pneumatic

Coaches behind the Iron Curtain. A. Hermann. *Automotive Design Engng.*, 4 (Sep 65) p.94-5. il.

MOTOR COACHES, Trailers

By road to India in a hotel on wheels: Belgian coach operator's coach/trailer Mobilotel offers comfortable and moderately priced travel to the Near and Far East [West Belgium Coach Co. of Ostend] *Passenger Transport*, 128 (Mar 65) p.124-5. il.

MOTOR COACHES, Transmissions

A.E.C. Swift, pt.2: fluid coupling, epicyclic gearbox, propeller shaft and final drive assembly. *Automobile Engng.*, 55 (Aug 65) p.344-9. il.

MOTOR COACHES, Ventilation

Development in bus and coach heating and ventilating systems. B. J. Kearsy. *Automotive Design Engng.*, 4 (Jul 65) p.60-1. il.

Heating without plumbing. A. K. Polson. *Bus & Coach*, 37 (Dec 65) p.461-3. il.

MOTOR CYCLES

TT technical review, pt.2: single at a discount. V. Willoughby. *Motor Cycle*, 115 (8 Jul 65) p.38-41. il.

MOTOR CYCLES—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

*Buyers' guides**Technical activities**Design**Conversion**Maintenance**Parts**Frames**Forks**Transmissions**Gears**Brakes**Engines**Throttle control**Wheels**Tyres**Performance**Cornering**Types**Racing**Dragster**Ancillaries**Sidecars***MOTOR CYCLES, Brakes**

DIY2LS: simple brake conversion. V. Willoughby. *Motor Cycle*, 114 (22 Apr 65) p.512-13. il.

MOTOR CYCLES, Buyers' guides

Spring buyers guide. *Motor Cycling* (3 Apr 65) p.13+

MOTOR CYCLES, Conversion

654 Dow "Lightning" BSA. *Motor Cycling* (4 Sep 65) p.5. il.

Strictly for men. P. Fraser. *Motor Cycle*, 114 (6 May 65) p.598-600. il.

349cc Tom Kirby AJS 7R. *Motor Cycling* (13 Nov 65) p.5.

MOTOR CYCLES, Cornering

Here's why. T. Wilson-Jones. *Motor Cycle*, 114 (18 Feb 65) p.206-7. il.

MOTOR CYCLES, Design

Design for handling. K. Sprayson. *Motor Cycle*, 114 (17 Jun 65) p.790-2. il.

MOTOR CYCLES, Dragster

Double-barrel BeeSA. V. Willoughby. *Motor Cycle*, 114 (25 Mar 65) p.370-1. il.

14 months with the monster [JAP] A. Hogan. *Motor Cycling* (23 Oct 65) p.5+.

Persistent Boffin [Drag-Way sprinter] V. Willoughby. *Motor Cycle*, 115 (23 Sep 65) p.436-8. il.

Those American bombs. V. Willoughby. *Motor Cycle*, 115 (14 Oct 65) p.562-5. il.

Twin things first blast-off. G. Forsdyke. *Motor Cycling* (27 Feb 65) p.7. il.

MOTOR CYCLES, Engines

Any advance on twelve? G. H. Jones. *Motor Cycle*, 114 (27 May 65) p.690-2. il.

Crazy see-saw. V. Willoughby. *Motor Cycle*, 115 (1 Jul 65) p.10-14. il.

Lightweight power, pt.1: two-stroke, four-stroke or rotary? B. Hooper. *Motor Cycle*, 115 (19 Aug 65) p.252-4. il.

My recipe for a world beater: oil-cooled 350 four. R. N. W. Holmes. *Motor Cycling* (21 Aug 65) p.7. il.

Short and fat. P. Vincent. *Motor Cycle*, 115 (22 Jul 65) p.118-19. il.

MOTOR CYCLES, Engines—cont.

Sorting out the wreckage. V. Willoughby. *Motor Cycle*, 115 (18 Nov 65) p.730-1. il.

Take three from eight: my recipe for a world beater. P. Irving. *Motor Cycling* (7 Aug 65) p.7. il.

250 cc V-8 four stroke: my recipe for a world beater. R. A. Wilson-Jones. *Motor Cycling* (17 Jul 65) p.5. il.

What—no ceiling? P. Vincent. *Motor Cycle*, 115 (23 Sep 65) p.456-7. il.

Why more cylinders? P. Vincent. *Motor Cycle*, 114 (8 Apr 65) p.458-60. il.

MOTOR CYCLES, Engines, Cylinders, Oblong

Why not square? V. Willoughby. *Motor Cycle*, 114 (29 Apr 65) p.544-5. il.

MOTOR CYCLES, Engines, Maintenance

AMC Atlas engines. *Motor Cycle*, 115 (11 Nov 65) p.684-7. il.

MOTOR CYCLES, Engines, Superchargers

Blowers for us? P. Vincent. *Motor Cycle*, 115 (11 Nov 65) p.672-5. il.

MOTOR CYCLES, Engines, Tuning

Holding top-whack. P. Frazer. *Motor Cycle*, 115 (8 Jul 65) p.46-8. il.

New slants on tuning, pt.1. V. Willoughby. *Motor Cycle*, 114 (11 Mar 65) p.298-9. il.

New slants on tuning, pt.2: one into two will go. V. Willoughby. *Motor Cycle*, 114 (18 Mar 65) p.334-6. il.

New slant on tuning, pt.3: knob on a shaft. V. Willoughby. *Motor Cycle*, 114 (1 Apr 65) p.406-8. il.

Twistgrip and spanners: played in tune. J. Ebbrell. *Motor Cycle*, 114 (18 Mar 65) p.344-5. il.

MOTOR CYCLES, Engines, Two stroke

Lightweight power, pt.2: better and cheaper. B. Hooper. *Motor Cycle*, 115 (26 Aug 65) p.280-2. il.

MOTOR CYCLES, Engines, Valves

Hot head. V. Willoughby. *Motor Cycle*, 114 (28 Jan 65) p.114-6. il.

MOTOR CYCLES, Forks

A closer look at the new BSA Front Fork. *Motor Cycle*, 115 (18 Nov 65) p.714-15. il.

MOTOR CYCLES, Frames

Holding the bits apart. K. Sprayson. *Motor Cycle*, 114 (25 Mar 65) p.388-91. il.

MOTOR CYCLES, Gears, Ratios

How many teeth? V. Willoughby. *Motor Cycle*, 115 (25 Nov 65) p.752-3. il.

MOTOR CYCLES, Maintenance

Service shop lore, no.24: BSA A50 and A65 twins. *Motor Cycle*, 114 (18 Mar 65) p.360-2. il.

Unit-construction Triumph twins. *Motor Cycle*, 114 (25 Mar 65) p.374-6. il.

MOTOR CYCLES, Parts, Steel, Stainless

Don't say steel—say stainless. B. Currie. *Motor Cycle*, 114 (4 Mar 65) p.264-5. il.

MOTOR CYCLES (Racing)

Britain's world beater. P. Vincent. *Motor Cycle*, 114 (28 Jan 65) p.96-9. il.

"G-plan" racer. B. Greeves. *Motor Cycling* (6 Mar 65) p.8-9. il.

My recipe for world-beater: 500 two stroke twin. J.

Ehrlich. *Motor Cycling* (20 Feb 65) p.8-9. il.

Whose baby? V. Willoughby. *Motor Cycle*, 115 (16 Dec 65) p.846-9. il.

MOTOR CYCLES (Racing) Engines

Two-stroke Flat Four. B. Hooper. *Motor Cycle*, 114 (18 Feb 65) p.192-4. il.

MOTOR CYCLES, Sidecars

BSA A65 and Watsonian Monza. *Motor Cycle*, 114 (4 Mar 65) p.266-9. il.

On the level. P. Fraser. *Motor Cycle*, 115 (15 Jul 65) p.90-2. il.

MOTOR CYCLES, Sidecars—cont.

Sidecar tips. W. Rawlings. *Motor Cycle*, 114 (18 Feb 65) p.202-3. il.

649 cc Triumph trophy with Watsonian GP Sports: road tests of new models. *Motor Cycle*, 115 (9 Dec 65) p.816-19. il.

Triumph "Thunderbird" and Watsonian "Monaco". *Motor Cycling* (3 Apr 65) p.5. il.

MOTOR CYCLES, Sidecars, Road tests

BSA Lightning and Watsonian Monaco Mk II. *Motor Cycle*, 114 (6 May 65) p.602-5. il.

MOTOR CYCLES, Throttle control, Cables, Repairs

Quick-change artists. *Motor Cycle*, 115 (5 Aug 65) p.176-8. il.

MOTOR CYCLES, Types, AER Macchi, Tests

344 cc AER Macchi. *Motor Cycling* (17 Apr 65) p.5. il.

MOTOR CYCLES, Types, A.J.S.

AMC go series. *Motor Cycle*, 115 (9 Sep 65) p.352-3. il.

MOTOR CYCLES, Types, A.J.S. 31 CSR, Road tests

Two million mile test: AJS and Matchless six-hundred and six-fifty twins. M. Evans. *Motor Cycle*, 114 (18 Mar 65) p.346-50. il.

MOTOR CYCLES, Types, A.J.S. Sapphire Ninety, Road tests

248 cc AJS Sapphire Ninety. *Motor Cycle*, 114 (25 Feb 65) p.228-30. il.

MOTOR CYCLES, Types, B.M.W.

Less weight and more power. H. Louis. *Motor Cycle*, 114 (22 Apr 65) p.514-15. il.

MOTOR CYCLES, Types, B.S.A.

Yanks are coming [BSA] *Motor Cycle*, 115 (2 Sep 65) suppt. p.4a-7a. il.

MOTOR CYCLES, Types, B.S.A. A 50

BSA A50 and A65 twins. M. Evans. *Motor Cycle*, 115 (7 Oct 65) p.514-19. il.

MOTOR CYCLES, Types, B.S.A. A 65

BSA A50 and A65 twins. M. Evans. *Motor Cycle*, 115 (7 Oct 65) p.514-19. il.

MOTOR CYCLES, Types, B.S.A. A65L Lightning 654cc, Road tests

654cc BSA Lightning. *Motor Cycle*, 115 (16 Dec 65) p.850-2. il.

MOTOR CYCLES, Types, B.S.A. C 15

249 cc BSA C15. M. Evans. *Motor Cycle*, 114 (22 Apr 65) p.508-11. il.

MOTOR CYCLES, Types, B.S.A. D7 Bantam Super de Luxe, Road tests

BSA 173 cc D7 Bantam Super de Luxe. *Motor Cycle*, 114 (24 Jun 65) p.852-3. il.

MOTOR CYCLES, Types, B.S.A. Sports Star, Road tests

249cc BSA 'Sports Star'. *Motor Cycling* (7 Aug 65) p.5. il.

MOTOR CYCLES, Types, Bultaco

First press test and some owner's comments on Miller's Bultaco. M. Bashford. *Motor Cycling* (16 Jan 65) p.5. il.

MOTOR CYCLES, Types, Bultaco, Tests

Molloy's 244 cc Bultaco. *Motor Cycling* (22 May 65) p.5. il.

124 cc Bultaco Single. *Motor Cycling* (1 May 65) p.5. il.

MOTOR CYCLES, Types, Cotton Conquest, Tests

247 Cotton 'Conquest'. *Motor Cycling* (20 Nov 65) p.5.

MOTOR CYCLES, Types, Cotton Telstar, Tests

Works Cotton 'Telstar'. *Motor Cycling* (2 Jan 65) p.5. il.

MOTOR CYCLES, Types, D.M.W. Homet, Tests

247 c.c. DMW 'Homet'. *Motor Cycling* (6 Mar 65) p.5. il.

MOTOR CYCLES, Types, D.M.W. Sports Twin

249 cc DMW Sports Twin. *Motor Cycle*, 115 (12 Aug 65) p.204-5. il.

MOTOR CYCLES, Types, Ducati Mach 1, Tests

249 Ducati Mach I. *Motor Cycling* (27 Feb 65) p.5. il.

MOTOR CYCLES, Types, Dunstall Dominator

647 cc Dunstall Dominator. D. Dixon. *Motor Cycle*, 114 (20 May 65) p.648-50. il.

MOTOR CYCLES, Types, Francis-Barnett

Greet integration [Francis-Barnett-James] Motor Cycle, 115 (9 Sep 65) p.376-7. il.

MOTOR CYCLES, Types, Greeves Anglian

Better than ever [Greeves Anglian] Motor Cycle, 115 (25 Nov 65) p.760-2. il.

Enter the Anglian. Motor Cycle, 115 (2 Sep 65) p.308-9. il.

MOTOR CYCLES, Types, Greeves Special, Tests

246cc Greeves Special. Motor Cycling (20 Nov 65) p.2.

MOTOR CYCLES, Types, Honda C77

305 cc Honda C77 twin. M. Evans. Motor Cycle, 114 (25 Mar 65) p.372-3. il.

MOTOR CYCLES, Types, Honda C95, Road tests

154cc Honda C95 twin. Motor Cycling (6 Feb 65) p.5. il.

MOTOR CYCLES, Types, Honda CB 160 Sports, Road tests

161cc Honda CB 160 Super Sports. Motor Cycling (14 Aug 65) p.5. il.

MOTOR CYCLES, Types, Honda CB77 Super Sport, Road tests

Honda 305 cc CB77 Super Sport. Motor Cycle, 115 (29 Jul 65) p.134-6. il.

MOTOR CYCLES, Types, Honda CB 450

Looking into Honda CB 450. Motor Cycling (1 May 65) p.2. il.

444 cc Honda CB 450 ohc twin. Motor Cycling (18 Sep 65) p.5.

MOTOR CYCLES, Types, Honda CR 93, Tests

25 cc Honda CR93. Motor Cycling (13 Feb 65) p.7. il.

MOTOR CYCLES, Types, Honda CM90

87 cc Honda CM90. M. Evans. Motor Cycle, 115 (2 Sep 65) p.310-11. il.

MOTOR CYCLES, Types, Honda S65 Sports

63 cc Honda S65 Sports. M. Evans. Motor Cycle, 115 (1 Jul 65) p.8-9. il.

MOTOR CYCLES, Types, James

Greet integration [Francis-Barnett-James] Motor Cycle, 115 (9 Sep 65) p.376-7. il.

MOTOR CYCLES, Types, MZ, Tests

248cc MZ works racer. Motor Cycling (27 Nov 65) p.5.

MOTOR CYCLES, Types, Matchless

AMC go series. Motor Cycle, 115 (9 Sep 65) p.352-3. il.

MOTOR CYCLES, Types, Matchless G12 de luxe, Road tests

Two million mile test: AJS and Matchless six-hundred and six-fifty twins. M. Evans. Motor Cycle, 114 (18 Mar 65) p.346-50. il.

MOTOR CYCLES, Types, Matchless G15 CSR, Road tests

745 cc Matchless G15 CSR. Motor Cycle, 115 (15 Jul 65) p.80-2. il.

MOTOR CYCLES, Types, Matchless G50 CSR

496 cc Matchless G50. Motor Cycling (7 Aug 65) p.9. il.

MOTOR CYCLES, Types, Norton

Five Twins [Norton] Motor Cycle, 115 (9 Sep 65) p.372-3. il.

Senior TT Mulamey Norton. Motor Cycling (19 Jun 65) p.3. il.

MOTOR CYCLES, Types, Norton, Conversions

Tom Phillips' disc braked Norton. Motor Cycling (24 Jul 65) p.7. il.

MOTOR CYCLES, Types, Norton Dominator, Conversions

349 cc Petty Norton. Motor Cycling (24 Apr 65) p.5. il.

MOTOR CYCLES, Types, Norton Dominator, Conversions, Tests

647cc "Dunstall-Dominator". Motor Cycling (13 Mar 65) p.5. il.

MOTOR CYCLES, Types, Norton Dominator, Tests

647 cc Seeley 'Domiracer'. Motor Cycling (20 Feb 65) p.7. il.

MOTOR CYCLES, Types, Norton Jubilee

249 cc Norton Jubilee. M. Evans. Motor Cycle, 115 (5 Aug 65) p.170-4. il.

MOTOR CYCLES, Types, Puch SGS, Road tests

Puch 248 cc SGS. Motor Cycle, 115 (11 Nov 65) p.676-7. il.

248 cc Puch 250 SGS. Motor Cycling (10 Jul 65) p.7. il.

MOTOR CYCLES, Types, Royal Enfield "Continental", Road tests

248 cc Royal Enfield "Continental GT". Motor Cycling (21 Aug 65) p.5. il.

MOTOR CYCLES, Types, Royal Enfield Crusader Sports

Royal Enfield Crusader Sports. M. Evans. Motor Cycle, 114 (21 Jan 65) p.70-4. il.

MOTOR CYCLES, Types, Royal Enfield Grand Prix

Quick-fire results: racing engines. V. Willoughby. Motor Cycle, 114 (13 May 65) p.634-7. il.

MOTOR CYCLES, Types, Rudge Ulster, Tests

1939 Rudge 'Ulster'. Motor Cycling (26 Dec 64) p.5. il.

MOTOR CYCLES, Types, Scott

Keeping the Scott fly flying: how one man saved a famous marque. Motor Cycling (23 Jan 65) p.7. il.

MOTOR CYCLES, Types, Scott 344, Tests

394cc experimental Scott. Motor Cycling (6 Nov 65) p.5.

MOTOR CYCLES, Types, Suzuki T10, Road tests

246cc Suzuki T10 Twin. Motor Cycling (20 Mar 65) p.5. il.

MOTOR CYCLES, Types, Triumph

More punch in the middle [Triumph] Motor Cycle, 115 (2 Sep 65) suppl. p.10a. il.

MOTOR CYCLES, Types, Triumph, Conversions

Different with a difference. V. Willoughby. Motor Cycle, 114 (10 Jun 65) p.774-6. il.

MOTOR CYCLES, Types, Triumph Bonneville 120

649 cc Triumph T120 Bonneville. M. Evans. Motor Cycle, 114 (27 May 65) p.682-6. il.

MOTOR CYCLES, Types, Velocette

My recipe for a world-beater. B. Goodman. Motor Cycling (6 Feb 65) p.9. il.

Sixty Velo years. B. Currie. Motor Cycle, 114 (20 May 65) p.658-9. il.

MOTOR CYCLES, Types, Velocette Venom Clubman, Road tests

499 cc Velocette 'Venom Clubman Veeline'. Motor Cycling (31 Jul 65) p.5. il.

MOTOR CYCLES, Types, Villiers-Bultaco, Tests

247 cc Villiers Bultaco. Motor Cycling (19 Dec 64) p.7. il.

MOTOR CYCLES, Types, Vincent, Conversions

998 cc Russell Vincent. Motor Cycling (8 May 65) p.5. il.

MOTOR CYCLES, Types, Wooler

What might have been: Wooler flat fours that never reached production. P. Vincent. Motor Cycle, 114 (14 Jan 65) p.38-40. il.

MOTOR CYCLES, Types, Yamaha YA6, Road tests

123 cc Yamaha YA 6 single. Motor Cycling (19 Jun 65) p.6. il.

MOTOR CYCLES, Types, Yamaha YDS3

Simple but superlative: Yamaha YDS3 246cc. Motor Cycle, 114 (1 Apr 65) p.430-4. il.

MOTOR CYCLES, Types, Yamaha YDS3, Road tests

Yamaha 246 cc YDS3 Super sport. Motor Cycle, 114 (4 Feb 65) p.136-8. il.

MOTOR CYCLES, Tyres

Different usage: latest tyre advances. E. Tompkins. Motor Cycle, 114 (7 Jan 65) p.8-9. il.

MOTOR FUEL. See PETROL

MOTOR GUIDANCE, Training, Manual positioning. See POSITIONING, Manual, Training, Motor guidance

MOTOR INDUSTRY RESEARCH ASSOCIATION

M.I.R.A. today. E. Eves. Autocar, 122 (5 Feb 65) p.264-7. il.

MOTOR SHIPS. See SHIPS (Motor)

MOTOR VEHICLES

Developments in road vehicles. Machinery Lloyd (Overseas ed.) 37 (31 Jul 65) p.29-34. il.

MOTOR VEHICLES

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MOTOR VEHICLES—SUBHEADINGS—Synopsis

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MOTOR VEHICLES—SUBHEADINGS—Synopsis—cont.

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MOTOR VEHICLES, Abandoned

Getting to grips with the problem of littering cars. F. Shults. *Public Cleansing*, 55 (Feb 65) p.110-14
London Centre discusses abandon vehicles. *Public Cleansing*, 55 (Dec 65) p.698-709

MOTOR VEHICLES, Accessories, Manufactures, Effluents, Treatment

Inorganic effluents... a case history [Clayton Dewandre Co. Ltd.] C. R. Elcock. *Effluent & Water Treatment J.*, 5 (Jun 65) p.314+. *il.*

MOTOR VEHICLES, Accidents

Accidents and vehicle occupants (abstract) W. Gissane. *Engineer*, 220 (5 Nov 65) p.758
Accidents prevention and cure. *Motor* (10 Mar 65) p.30-1. *il.*
How do they die? Medical engineering data from on-scene investigations. D. F. Huelke & P. W. Gikas. *Automotive Body Engrg.*, 135 (Aug 65) p.22-4

MOTOR VEHICLES, Accidents, Recovery

Guide to 24-hour and emergency service. H. B. Cottee. *Commercial Motor*, 120 (15 Jan 65) p.47+
Recovery is a job for specialists, but operators could help themselves more. R. Marshall. *Commercial Motor*, 120 (15 Jan 65) p.42-4. *il.*

MOTOR VEHICLES, Alternators

Fiat current-generation system. *Automobile Engr.*, 55 (Dec 65) p.521-6. *il.*

MOTOR VEHICLES, Articulated

Artic design problems and their effect on the operator (summary) J. M. Dickson-Simpson. *Commercial Vehicles*, 39 (May 65) p.34-6
Artic is a 'gaffers wagon'. N. H. Tilsley. *Commercial Motor*, 121 (5 Feb 65) p.76+. *il.*
Choosing tomorrow's artics. J. M. Dickson-Simpson. *Transport World* (Sep 65) p.28+. *il.*
Modern trends in artics (extracts) J. M. Dickson-Simpson. *Transport World* (Apr 65) p.36-9. *il.*
Modern trends in articulation. J. M. Dickson-Simpson. *Transport J.*, 24 (Apr 65) p.335+. *il.*
Modern trends in articulation. J. M. Dickson-Simpson. *J. & Proc. of Inst. of Road Transport Engrs.*, 19 (Sep 65) p.25+
Profitability in switching to artics [Pointer Group, Norwich] J. R. Southgate. *Transport World* (Sep 65) p.34-5. *il.*
Trends in vehicle articulation: abstracts from "Modern trends in articulation". J. M. Dickson-Simpson. *Engineer*, 219 (2 Apr 65) p.598-9

MOTOR VEHICLES, Articulated, Brakes

Proposed air-brake circuits for trailer designers. *Automotive Design Engrg.*, 5 (Mar 65) p.69. *il.*
Triples and doubles pose a trailer braking problem. B. R. Mathews. *Commercial Vehicles*, 38 (Jan 65) p.22+. *il.*

MOTOR VEHICLES, Articulated, Brakes, Pneumatic, Pressure, Control, Valves

Braking proportional to load [Clayton Dewandre Co. Ltd.] Automobile Engr., 55 (Nov 65) p.491-3. il.

Impressive demonstration of Clayton Dewandre's load-sensitive braking device. A. J. P. Wilding. Commercial Motor, 122 (17 Sep 65) p.66-8. il.

Stopping artic jack-knifing [Dewandre G-matic] Transport World (Sep 65) p.55-6. il.

Matching brake pressure to load carried on air braked vehicles [Clayton-Dewandre] Fluid Power International, 30 (Oct 65) p.339. il.

MOTOR VEHICLES, Articulated, Driving, Education

From rigid to artic. E. J. Millen. Commercial Motor, 121 (5 Feb 65) p.109+. il.

MOTOR VEHICLES, Articulated, Loading

Aids to artic turnround. E. M. G. Gibbins. Commercial Vehicles, 38 (Jan 65) p.50-2. il.

MOTOR VEHICLES, Articulated, Operation, Costs

Costing trailer operation. S. Buckley. Commercial Motor, 121 (5 Feb 65) p.115-7

MOTOR VEHICLES, Articulated, Running gear

Running gear selection for road tank semi-trailers. Commercial Vehicles, 38 (Jan 65) p.69. il.

MOTOR VEHICLES, Articulated, Semi-trailers

New semi-trailers from North-east [Walker] R. D. Cater. Commercial Motor, 122 (20 Aug 65) p.45-6. il.

Trend in semi-trailers is to 'specials' [Scammell] D. W. Ironmoger. Commercial Vehicles, 38 (Jan 65) p.54-5. il.

MOTOR VEHICLES, Articulated, Semi-trailers, Axles, Tandem

Takes two to tango. Transport World (Sep 65) p.38-41. il.

MOTOR VEHICLES, Articulated, Semi-trailers, Buyers' guides

Where the trailers come from: a buyers' guide to trailers and semi-trailers. Commercial Motor, 121 (5 Feb 65) p.86+. il.

MOTOR VEHICLES, Articulated, Semi-trailers, Maintenance

Look after your trailer—it is worth it! E. Allen. Commercial Motor, 121 (5 Feb 65) p.84-5. il.

MOTOR VEHICLES, Articulated, Semi-trailers, Refuse collection. See REFUSE, Collection, Articulated vehicles, Semi-trailers**MOTOR VEHICLES, Articulated, Tractive units**

British tractive units. Commercial Motor, 121 (5 Feb 65) p.99-102

MOTOR VEHICLES, Articulated, Tractive units, Types, A.E.C. Mammoth Minor

AEC Mammoth Minor to be at Kelvin Hall. Commercial Motor, 122 (15 Oct 65) p.88+. il.

MOTOR VEHICLES, Articulated, Tractive units, Types, A.E.C. Mandator 691/760

A.E.C. Mandator 691/760 tractor chassis with ergonomic cab. Commercial Motor, 121 (7 May 65) p.79. il.

MOTOR VEHICLES, Articulated, Tractive units, Types, Commer CC15

Commer introduce 24-ton artic: and make changes to other models. Commercial Motor, 122 (29 Oct 65) p.46-7. il.

MOTOR VEHICLES, Articulated, Tractive units, Types, Kenworth

High and mighty [Kenworth tractive unit used by York Trailer Co.] R. D. Cater. Commercial Motor, 122 (17 Sep 65) p.84+. il.

MOTOR VEHICLES, Articulated, Tractive units, Types, Mercedes-Benz LPS 1620

Mercedes power and luxury [Mercedes-Benz LPS 1620] J. F. Moon. Transport World (Sep 65) p.46+. il.

MOTOR VEHICLES, Articulated, Tractive units, Types, Scammell Trunker

Scammell trunker prototype—load transfer suspension. Engine Design & Application, 1 (Sep 65) p.12-13. il.
6-Wheeled twin-steer tractive unit to be produced by Scammell. Transport World (Jul 65) p.30-1. il.

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MUCH WENLOCK

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NEOPRENE, Production, Plant

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NEOPRENE, Reinforced, Nylon, Fabrics, Mechanical properties

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NEOPRENE, Seals, Joints, Concrete pipes, Sewers. See SEWERS, Pipes, Concrete, Joints, Seals, Neoprene**NEPAL**

See ARCHITECTURE, Tukche

NEPETA CILIARIS, Essential oils

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NEPTUNIUM, Nuclei, Fission, Cross section, Neutrons, Fast

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NERNST-EINSTEIN RELATION, Diffusion-resistivity correlation, Sodium ions, Sodium silicate glass. See GLASS, Sodium silicate, Sodium ions, Diffusion-resistivity correlation, Nernst-Einstein relation**NERVE CELLS. See NEURONES****NESS BRIDGE**

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NET, Curtains. See CURTAINS, Net**NETHERLANDS**

See

AIR TRANSPORT, Netherlands**AIRCRAFT, Military, Netherlands****ARCHITECTURE, Netherlands****BOATS, Building, Netherlands****BUSES, Transport, Netherlands****CEMENT, Production, Netherlands****CENTRAAL LABORATORIUM TNO, Delft****CIVIL ENGINEERING, Netherlands****DAIRY INDUSTRY, Netherlands****DAMS, Grevelingen****DAMS, Haringvliet****DAMS, Netherlands****FLOOD CONTROL, Netherlands****FOOD, Processing, Netherlands****GAS, Natural, Netherlands****GAS, Natural, Pipelines, Netherlands****GLASS, Manufactures, Netherlands****INDUSTRIAL RESEARCH, Netherlands****KAMERLINGH-ONNES LABORATORY, Leiden****NETS, Fishing****PETROLEUM, Refineries, Rotterdam****PORTS, Rotterdam****RAILWAYS, Rotterdam****RAILWAYS, Stations, Utrecht****RAILWAYS, Underground, Rotterdam**

NETHERLANDS

See—cont.

SHIPBUILDING, Netherlands
 TEXTILES, Industry, Netherlands
 TOWN & COUNTRY PLANNING, Netherlands
 TRAMWAYS, The Hague
 TRANSPORT, Town planning, Netherlands

NETS, Fishing. See FISHING, Nets

NETS, Industrial safety, Building. See BUILDING, Industrial safety, Nets

NETS, Safety, Civil engineering. See CIVIL ENGINEERING, Safety, Nets

NETWORK ANALYSERS, Critical path analysis. See

CRITICAL PATH ANALYSIS, Network analysers

NETWORK ANALYSIS, Molecular transfer determination, Cryo-pumping, Pumping, Vacuum. See VACUUM, Pumping, Cryo-pumping, Molecular transfer, Determination, Network analysis

NETWORKS, Electrical

Related Headings:

FILTERS, Frequency
 IMPEDANCE, Matching

NETWORKS, Electrical, Analogues, Conduction, Heat. See HEAT, Conduction, Analogues, Networks, Electrical

NETWORKS, Electrical, Analogues, Heating, Oil circuit breakers. See CIRCUIT BREAKERS, Oil, Heating, Analogues, Networks

NETWORKS, Electrical, Analogues, Loaded waveguides. See WAVEGUIDES, Loaded, Transverse network representation

NETWORKS, Electrical, Analogues, Water distribution. See WATER, Supplies, Distribution, Simulators, Networks, Electrical

NETWORKS, Electrical, Analysis, Computers

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NETWORKS, Electrical, Analysis, Iterative methods, Taylor's series

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NETWORKS, Electrical, Analysis, Matrices

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NETWORKS, Electrical, Cartesian, Potentiometers, Alternating voltage measurement. See VOLTAGE, Alternating, Measurement, Potentiometers, Cartesian networks

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NETWORKS, Electrical, Group delay, Derivation, Attenuation

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NETWORKS, Electrical, Ladder, Non-recurrent

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NETWORKS, Electrical, Linear, Frequency response, Solution, Computers, Programs

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NETWORKS, Electrical, Partial differential equations solution. See DIFFERENTIAL EQUATIONS, Partial, Solution, Networks, Electrical

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NETWORKS, Electrical, Resistive, Analogues, Thermal stresses, Circular bore rectangular pipes. See PIPES, Rectangular, Circular bore, Stresses, Thermal, Analogues, Networks, Resistive

NETWORKS, Electrical, Scattering matrix

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NETWORKS, Electrical, Servomechanisms. See SERVO-MECHANISMS, T-networks

NETWORKS, Electrical, Two port, Analysis, Iterative methods, Computers

Iterative procedure for analysing certain networks by digital computer. B. A. M. Willcox & R. C. V. Macario. *Proc. of Instn. of Electrical Engrs.*, 112 (Dec 65) p.2243-53. il. refs.

NEUCHÂTEL

See

PETROLEUM, Refineries, Neuchâtel

NEUF BRISACH

See

TOWN PLANNING, Neuf Brisach

NEURONES, Firing, Intervals, Analysis, Computers

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NEUROPHYSIOLOGY, Electronics, Pulses, Recording, Frequency, Meters, Transistor

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NEUTRALISATION, Water, Mining. See MINING, Water, Neutralisation**NEUTRONS**

Related Headings:

PHOTONEUTRONS

NEUTRONS, Absorbers, Effect on energy distribution, Water, Neutron diffusion, Nuclear reactors. See NUCLEAR REACTORS, Neutron diffusion, Water, Energy distribution, Effect of neutron absorbers

NEUTRONS, Absorption, Calibration, Beryllium-Radium sources, Fast neutrons. See NEUTRONS, Fast, Sources, Beryllium-Radium, Calibration, Neutron absorption

NEUTRONS, Absorption, Control rods, Reflectors, Nuclear reactors. See NUCLEAR REACTORS, Reflectors, Control rods, Neutron absorption

NEUTRONS, Activation analysis, Antimony determination, Iron. See IRON, Determination of antimony, Neutron activation

NEUTRONS, Activation analysis, Chloride determination, Beer. See BEER, Determination of chlorides, Neutron activation

NEUTRONS, Activation analysis, Neutron cross section determination, ^{59}Co (n,α) ^{56}Mn reaction. See NUCLEAR REACTIONS, ^{59}Co (n,α) ^{56}Mn , Neutron cross section, Determination, Neutron activation

NEUTRONS, Activation analysis, Neutron cross section determination, ^{63}Cu ($n,2n$) ^{62}Cu reaction. See NUCLEAR REACTIONS, ^{63}Cu ($n,2n$) ^{62}Cu , Neutron cross section, Determination, Neutron activation

NEUTRONS, Activation analysis, Neutron cross section determination, ^{56}Fe (n,p) ^{56}Mn reaction. See NUCLEAR REACTIONS, ^{56}Fe (n,p) ^{56}Mn , Neutron cross section, Determination, Neutron activation

NEUTRONS, Activation analysis, Sodium determination, Fuel oil. See FUEL OIL, Determination of sodium, Neutron activation

NEUTRONS, Activation analysis, Zone refined aluminium. See ALUMINIUM, Zone refined, Neutron activation analysis

NEUTRONS, Annular nuclear reactors. See NUCLEAR REACTORS, Annular, Neutrons

NEUTRONS, Beams, Choppers, Electric motors, D.C., Stability, Control systems

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NEUTRONS, Bombardment, Fission fragments. See FISSION FRAGMENTS (Neutron bombardment)

NEUTRONS, Capture, Beryllium-Radium sources calibration, Photoneutrons. See PHOTONEUTRONS, Sources, Beryllium-Radium, Calibration, Neutron capture

NEUTRONS, Cluster fuel elements, Nuclear reactors. See NUCLEAR REACTORS, Fuel elements, Cluster, Neutrons

NEUTRONS, Cross section, ^{59}Co (n,α) ^{56}Mn reaction. See NUCLEAR REACTIONS, ^{59}Co (n,α) ^{56}Mn , Neutron cross section

NEUTRONS, Cross section, ^{63}Cu ($n,2n$) ^{62}Cu reaction. See NUCLEAR REACTIONS, ^{63}Cu ($n,2n$) ^{62}Cu , Neutron cross section

NEUTRONS, Cross section, ^{56}Fe (n,p) ^{56}Mn reaction. See NUCLEAR REACTIONS, ^{56}Fe (n,p) ^{56}Mn , Neutron cross section

NEUTRONS, Cryogenics, Irradiation, Aluminium. See ALUMINIUM, Irradiation (Cryogenics) Neutrons

NEUTRONS, Diffraction

Study of solids and liquids using thermal neutrons. W. Marshall. *Advancement of Science*, 22 (Jul 65) p.186-94. il.

NEUTRONS, Diffraction, Impurity effect on anisotropy studies, Ferromagnetism, Single crystals, Ferric oxide. See FERRIC OXIDE, Crystals, Single, Ferromagnetism, Anisotropy, Effect of impurities, Studies, Neutron diffraction

NEUTRONS, Diffraction, Magnetic materials. See MAGNETIC MATERIALS, Neutron diffraction

NEUTRONS, Diffraction, Magnetic moments studies, Manganese-Platinum. See MANGANESE-PLATINUM, Magnetic moments, Studies, Neutron diffraction

NEUTRONS, Diffusion, Beryllia, Beryllia moderated nuclear reactors. See NUCLEAR REACTORS, Beryllia moderated, Beryllia, Neutron diffusion

NEUTRONS, Diffusion, Beryllium moderated nuclear reactors. See NUCLEAR REACTORS, Beryllium moderated, Neutron diffusion

NEUTRONS, Diffusion, Boron impregnated graphite, Shielding, Liquid metal cooled fast reactors. See NUCLEAR REACTORS, Fast, Liquid metal cooled, Shielding, Graphite, Boron impregnated, Neutron diffusion

NEUTRONS, Diffusion, Nuclear reactors. See NUCLEAR REACTORS, Neutron diffusion

NEUTRONS, Energy, Distribution, Interfaces

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NEUTRONS, Energy, Effect on kinetic energy, Neutron bombardment, Fission fragments. See FISSION FRAGMENTS (Neutron bombardment) Kinetic energy, Effect of neutron energy

NEUTRONS, Epithermal, Nuclear reactors. See NUCLEAR REACTORS, Neutrons, Epithermal

NEUTRONS, Epithermal, Radiography

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NEUTRONS, Fast, Cross section, Fission, Uranium. See URANIUM, Nuclei, Fission, Cross section, Neutrons, Fast

NEUTRONS, Fast, Homogeneous nuclear reactors. See NUCLEAR REACTORS, Homogeneous, Neutrons, Fast

NEUTRONS, Fast, Moisture measurements, Bases, Roads. See ROADS, Bases, Moisture, Measurement, Neutrons, Fast

NEUTRONS, Fast, Rhenium. See RHENIUM, Neutrons, Fast

NEUTRONS, Fast, Scattering, Inelastic, Cross section, Determination, Proton recoil

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NEUTRONS, Fast, Sources, Beryllium-Radium, Calibration, Neutron absorption, Manganese sulphate baths

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- NEUTRONS**, Fission cross section, Uranium 235. See URANIUM 235, Nuclei, Fission, Cross section, Neutrons
- NEUTRONS**, Graphite moderated nuclear reactors. See NUCLEAR REACTORS, Graphite moderated, Neutrons
- NEUTRONS**, Industrial health, Monitors, Radioactivity, Measurement, Geiger counters, Calibration
- Neutron dosimetry using gold and sulphur: calibration of Geiger-Muller counter. S. J. Boot & J. A. Dennis. *J. of Scientific Instruments*, 42 (Apr 65) p.248-51. il. refs.
- NEUTRONS**, Irradiated alpha iron, Foil. See FOIL, Iron, Alpha, Irradiated (Neutrons)
- NEUTRONS**, Irradiated crystals, Graphite, Nuclear reactors. See NUCLEAR REACTORS, Graphite, Crystals, Irradiated, Neutrons
- NEUTRONS**, Irradiated single crystals, Copper. See COPPER, Crystals, Single, Irradiated, Neutrons
- NEUTRONS**, Irradiated single crystals, Graphite, Nuclear reactors. See NUCLEAR REACTORS, Graphite, Crystals, Single, Irradiated, Neutrons
- NEUTRONS**, Irradiation, Embrittlement, Nickel alloys. See NICKEL, Alloys, Embrittlement, Irradiation, Neutrons
- NEUTRONS**, Irradiation, Embrittlement, Stainless steel. See STEEL, Stainless, Embrittlement, Irradiation, Neutrons
- NEUTRONS**, Irradiation, Graphite. See GRAPHITE, Irradiated (Neutrons)
- NEUTRONS**, Irradiation, Graphite, Nuclear reactors. See NUCLEAR REACTORS, Graphite, Irradiated, Neutrons
- NEUTRONS**, Irradiation, Hardening, Single crystals, Aluminium. See ALUMINIUM, Crystals, Single, Hardening, Irradiation, Neutrons
- NEUTRONS**, Irradiation, Single crystals, Copper. See COPPER, Crystals, Single, Irradiation (Neutrons)
- NEUTRONS**, Irradiation, Single crystals, Magnesium oxide. See MAGNESIUM OXIDE, Crystals, Single, Irradiated, Neutrons
- NEUTRONS**, Irradiation, Steel. See STEEL, Irradiation, Neutrons
- NEUTRONS**, Nuclear reactors. See NUCLEAR REACTORS, Neutrons
- NEUTRONS**, Radiative capture, Ratio to fission cross section, Plutonium-239, Fuels, Nuclear reactors. See NUCLEAR REACTORS, Fuels, Plutonium-239, Neutron radiative capture—Fission ratio cross section
- NEUTRONS**, Radiography
- Contrast sensitivity in neutron radiography. J. P. Barton. *Applied Materials Research*, 4 (Apr 65) p.90-6. il. refs.
- NEUTRONS**, Scattering, Elastic, Cross section
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- NEUTRONS**, Scattering, Inelastic
- Study of solids and liquids using thermal neutrons. W. Marshall. *Advancement of Science*, 22 (Jul 65) p.186-94. il.
- NEUTRONS**, Scattering, Interfaces
- Angular and energy distributions of neutrons at the boundary of two media. V. A. Dulin, V. G. Dvukhshesterov, Y. A. Kazanskii & I. V. Shugar. *J. of Nuclear Energy*, 19 (Oct 65) p.810-18. il. refs.
- NEUTRONS**, Scattering, Lattice vibrations, Crystals. See CRYSTALS, Lattice vibrations, Neutron scattering
- NEUTRONS**, Scattering, Thermal motion studies, Liquids. See LIQUIDS, Thermal motion, Studies, Neutron scattering
- NEUTRONS (Sources, Beryllium-Polonium) Shielding, Metals—Water, Energy distribution**
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- NEUTRONS**, Sources, Calibration, Neutron absorption, Manganese sulphate
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- NEUTRONS**, Uranium carbides, Blankets, Fast nuclear reactors. See NUCLEAR REACTORS, Fast, Blankets, Uranium carbides, Neutrons
- NEVADA**
- See WATER, Resources, Lake Tahoe
- NEW HAMPSHIRE**
- See PORTS, Portsmouth (New Hampshire)
- NEW HAVEN**
- See RAILWAYS, Electric, New York—New Haven
- NEW JERSEY**
- See POWER STATIONS, Hudson
- NEW SOUTH WALES**
- See AIRPORTS, Sydney
ELECTRIC POWER SYSTEMS, New South Wales
HYDROELECTRIC POWER STATIONS, Snowy Mountains
IRRIGATION, Coleambally
OPERA HOUSES, Sydney
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- NEW TOWNS**
- More research—or logic—needed in planning. A. T. Edwards. *Municipal J.*, 73 (25 Jun 65) p.2205+
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- NEW YORK**
- See AIRPORTS, Terminal buildings, New York
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HOVERCRAFT, Transport, New York
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- NEW YORK STATE**
- See HYDROELECTRIC POWER STATIONS, Pumped storage, Cornwall (New York State)
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- NEW ZEALAND**
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- NEWARK**
- See ROADS, Town planning, Newark
- NEWCASTLE-UPON-TYNE**
- See HOSPITALS, Newcastle-upon-Tyne
LIBRARIES, Branch, Newcastle-upon-Tyne, Jesmond
ROADS, Town planning, Newcastle-upon-Tyne

NEWCASTLE-UPON-TYNE

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SHOPPING CENTRES, Newcastle-upon-Tyne
TOWN PLANNING, Newcastle-upon-Tyne

NEWCASTLE-UPON-TYNE. UNIVERSITY

City centre university: Newcastle-upon-Tyne. Architects' J., 141 (3 Feb 65) p.276. il.
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NEWFOUNDLAND

See

FISHING, Education, Newfoundland

NEWHAM

See

FLATS, Newham, East Ham
HOUSING, Newham, West Ham

NEWPORT BEACH

See

HEALTH CENTRES, Newport Beach

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NEWSPAPERS, Advertisements, Filmsetting

Photoset ads for the daily press. Brit. Printer, 78 (Dec 65) p.110+. il.

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NEWSPAPERS, Printing

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Daily newspapers: web offset versus letterpress. M. Graham. Litho Printer, 8 (Nov 65) p.58-9. il.

New 'Post' building [Birmingham Post and Mail Ltd.] Brit. Printer, 78 (Nov 65) p.107+. il.

NEWSPAPERS, Printing, Colour

ROP. W. R. Durrant. Brit. Printer, 78 (Mar 65) p.96-106. il.

NEWSPAPERS, Printing, Composing, Computers

Britain's first 'electronic newspaper' [Reading Evening Post] B. Woods. Litho Printer, 8 (Oct 65) p.37-8

Computer-set daily paper [Evening Post: Reading] Print in Britain, 13 (Nov 65) p.28-30. il.

High-speed composition for newspapers. J. M. Fairfield. Print in Britain, 13 (Nov 65) p.24-7. il.

Newspaper production—a new approach [Elliott 803 computer and Photon typesetting machines: Evening Post, Reading] Data Processing, 7 (Nov/Dec 65) p.324-31. il.

Thomson 'Computerset' will speed up newspaper production. Brit. Printer, 78 (May 65) p.90-1. il.

NEWSPAPERS, Printing, Composing, Data transmission

New York Times in Paris. D. Reason. Print in Britain, 13 (Jun 65) p.40-1. il.

NEWSPAPERS, Printing, Dry offset, Colour

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NEWSPAPERS, Printing, Lithography, Web-offset, Colour

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NEWSPAPERS, Printing, Lithography, Web-offset, Inks

Newspaper inks for web offset. N. F. McDonald. Print in Britain, 13 (Nov 65) p.55

NEWSPAPERS, Printing, Lithography, Web-offset, Machines

High speed production of newspapers [Crusader, the five unit balcony type web-fed offset press] Engineering, 200. (16 Jul 65) p.84. il.

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ROADS, Town planning, Newton Aycliffe

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NUCLEAR PROPULSION, Astronautic vehicles. See ASTRO-NAUTICS, Vehicles, Propulsion, Nuclear**NUCLEAR PROPULSION, Ships. See SHIPS, Nuclear propulsion****NUCLEAR REACTIONS, ^{59}Co (n, γ) ^{60}Mn , Neutron cross section, Determination, Activation analysis**

Cross-section measurement for the threshold reactions ^{59}Fe (n,p) ^{59}Mn , ^{59}Co (n, γ) ^{60}Mn and ^{63}Cu (n,2n) ^{62}Cu between 12.6 and 19.6 MeV neutron energy. H. Liskien & A. Paulsen. *J. of Nuclear Energy*, 19 (Feb 65) p.73-80. il. refs.

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Cross-section measurement for the threshold reactions ^{59}Fe (n,p) ^{59}Mn , ^{59}Co (n, γ) ^{60}Mn and ^{63}Cu (n,2n) ^{62}Cu between 12.6 and 19.6 MeV neutron energy. H. Liskien & A. Paulsen. *J. of Nuclear Energy*, 19 (Feb 65) p.73-80. il. refs.

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NUCLEAR REACTORS

Related Headings:
CRITICALITY

NUCLEAR REACTORS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Particular countries

Great Britain
U.S.A.

Research Costs

Problems
Faults
Safety
Wastes

Physics

Dynamics
Fluctuations
Neutrons
Neutron diffusion
Thermal utilisation

Operation

Shut-down

Components

Structures
Containers
Pressure vessels
Shielding
Control rods
Cores
Reflectors
Fuel elements
Instruments

Fuels

Materials
Non fissile materials
Graphite
Ceramics
Steel

Types of reactors

By can, moderator or coolant material
Magnox
Boiling water

NUCLEAR REACTORS—SUBHEADINGS—Synopsis—cont.

Pressurised water
Graphite moderated
Water moderated
Heavy water moderated
Beryllia moderated
Beryllium moderated
Organic moderated
Gas cooled
Helium cooled
Water cooled
Swimming pool
Sodium cooled
Annular
Homogeneous
Zero energy
Fast
Breeder

NUCLEAR REACTORS, Annular, Neutrons, Diffusion, Boundary conditions

Conditions aux limites pour une pile cylindrique annulaire. S. Klarsfeld. *J. of Nuclear Energy*, 19 (Apr 65) p.225-34. il. refs.

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OVERVOLTAGES, Molten lead fluoride-sodium fluoride, Lead electrodes. See ELECTRODES, Lead, Molten, lead fluoride-sodium fluoride, Overvoltages

OXEN, Fat, 3,7,11,15-Tetramethylhexadecanoic acid production. See 3,7,11,15-TETRAMETHYLHEXADECANOIC ACID, Production, Ox fat

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CHURCHES, Oxford

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ROADS, Traffic, Surveys, Oxford

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OXIDATION

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PHOTO-OXIDATION

SCALE

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ANTIMONY TRICHLORIDE, Determination, Oxidation

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ANODES, Metals, Aqueous solutions, Oxidation

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OXIDATION, Biological, Effluents, Distillation, Whisky. See WHISKY, Distillation, Effluents, Oxidation, Biological

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OXIDATION, Cyclobutane-1, 2-dicarboxylic acids. See CYCLOBUTANE-1, 2-DICARBOXYLIC ACIDS, Oxidation

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OXIDATION, Dissolved sulphur dioxide, Sulphuric acid solutions, Platinum anodes. See ANODES, Platinum, Sulphuric acid solutions, Dissolved sulphur dioxide, Oxidation

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OXIDATION, Elastin. See ELASTIN, Oxidation

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- OXIDATION, Stainless steel, Cans, Fuel elements, Gas cooled nuclear reactors. See NUCLEAR REACTORS, Gas cooled, Fuel elements, Cans, Steel, Stainless, Oxidation
- OXIDATION, Steel alloys. See STEEL, Alloys, Oxidation
- OXIDATION, Sulphur dioxide. See SULPHUR DIOXIDE, Oxidation
- OXIDATION, Sulphur dioxide, Copper sulphate solutions, Anodes. See ANODES, Copper sulphate solutions, Sulphur dioxide oxidation
- OXIDATION, Sulphuric acid solutions, Platinum anodes. See ANODES, Platinum, Sulphuric acid solutions, Oxidation
- OXIDATION, Sulphuric acid solutions, Tantalum anodes. See ANODES, Tantalum, Sulphuric acid solutions, Oxidation
- OXIDATION, Transformer oil. See TRANSFORMERS, Oil, Oxidation
- OXIDATION, Triphenylmethane. See TRIPHENYLMETHANE, Oxidation
- OXIDATION, Unsaturated fatty acids. See FATTY ACIDS, Unsaturated, Oxidation
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- OXIDATION, Uranium (IV), Uranium (IV) dioxide production. See URANIUM (IV) DIOXIDE, Production, Uranium (IV) Oxidation
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- OXIDE PURIFIERS, Hydrogen sulphide removal, Town gas. See GAS (Town) Purification, Hydrogen sulphide removal, Oxide purifiers
- OXIDE-SEMICONDUCTOR-METAL DIODES. See DIODES, Metal-Oxide-Semiconductor
- OXIDE-SEMICONDUCTOR-METAL TRANSISTORS. See TRANSISTORS, Metal-Oxide-Semiconductor
- OXIDES, Capacitors. See CAPACITORS, Oxides
- OXIDES, Dispersion alloys. See ALLOYS (Dispersion)
- OXIDES, Group IV elements-Zinc oxide. See ZINC OXIDE-GROUP IV OXIDES
- OXIDES, Group V elements-Zinc oxides. See ZINC OXIDE-GROUP V OXIDES
- OXIDES, Inclusions, Steel. See STEEL, Inclusions, Oxides
- OXIDES, Layer formation, Sulphuric acid solutions, Black gold anodes. See ANODES, Gold, Black, Sulphuric acid solutions, Oxide layers formation
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- OXYGEN, Adsorption, Vacuum deposited thorium, Films. See FILMS, Thorium, Vacuum deposited, Adsorption, Oxygen
- OXYGEN, Anions, Sizes, Effect on partition coefficients. See PARTITION COEFFICIENTS, Effect of oxygen anion sizes
- OXYGEN, tert-Butyl alcohol-Dimethyl sulfoxide, Oxidation, Triphenylmethane. See TRIPHENYLMETHANE, Oxidation (Dimethyl sulfoxide-tert-Butyl alcohol) Oxygen
- OXYGEN, Chemisorption, Effect on caesium antimonide cathodes, Photoemissive cells. See PHOTOEMISSIVE CELLS, Cathodes, Caesium antimonide, Effect of oxygen chemisorption
- OXYGEN, Consumption, Manual work. See WORK, Manual, Oxygen consumption
- OXYGEN, Determination, Feedwater, Boilers. See BOILERS, Feedwater, Determination of oxygen
- OXYGEN, Determination, Gases, Steel production. See STEEL, Production, Gases, Oxygen determination
- OXYGEN, Determination, Lead oxide. See LEAD OXIDE, Determination of oxygen
- OXYGEN, Determination, Organomercury compounds. See ORGANOMERCURY COMPOUNDS, Determination of oxygen
- OXYGEN, Dissolved, Buffer solutions, Effect on corrosion, Iron. See IRON, Corrosion, Buffer solutions, Effect of dissolved oxygen
- OXYGEN, Dissolved, Determination in water. See WATER, Determination of dissolved oxygen
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- OXYGEN, Effect on infra-red transmission, Germanium-Arsenic-Selenium glass. See GLASS, Germanium-Arsenic-Selenium, Infra-red transmission, Effect of oxygen
- OXYGEN, Effect on potassium ethyl xanthate collectors, Flotation, Galena. See GALENA, Flotation, Collectors, Potassium ethyl xanthate, Effect of oxygen
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- OXYGEN, Evolution, Hydrochloric acid solutions, Gold-Platinum anodes. See ANODES, Gold-Platinum, Hydrochloric acid solutions, Oxygen evolution
- OXYGEN, Evolution, Molten fluorides, Platinum, Anodes. See ANODES, Platinum, Molten fluorides, Oxygen evolution
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- OXYGEN, Exchange, Sulphoxides. See SULPHOXIDES, Oxygen exchange
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- OXYGEN, Flue gas. See FLUE GAS, Oxygen
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p-n JUNCTIONS, Degenerate, Semiconductors. See SEMICONDUCTORS, p-n junctions, Degenerate

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P.T.F.E., Tubes. See TUBES, P.T.F.E.

P.T.F.E., Valves, Remote control, Epitaxial deposition, Silicon films. See FILMS, Silicon, Epitaxial deposition, Control, Remote, Valves, P.T.F.E.

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P.V.C., Coatings. See COATINGS, P.V.C.

P.V.C., Coatings, Glass, Bottles. See BOTTLES, Glass, Coatings, P.V.C.

P.V.C., Coatings, Metals. See METALS, Coating, P.V.C.

P.V.C., Coatings, Preservation, Roman mosaics, Paving, Footways. See FOOTWAYS, Paving, Mosaics, Roman, Preservation, Coatings, P.V.C.

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P.V.C., Pipes, Drainage, Land. See LAND, Drainage, Pipes, P.V.C.

P.V.C., Pipes, Sewers. See SEWERS, Pipes, P.V.C.

P.V.C., Pipes, Town gas. See GAS (Town) Pipes, P.V.C.

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P.V.C., Pumps, High purity water. See WATER, High purity, Pumps, P.V.C.

P.V.C., Rainwater goods. See RAINWATER GOODS, P.V.C.

P.V.C., Sacks. See SACKS, P.V.C.

P.V.C., Sheets. See SHEETS, P.V.C.

P.V.C., Sheets, Linings, Tunnels. See TUNNELS, Linings, Sheets, P.V.C.

P.V.C., Sheets, Textile manufactures. See TEXTILES, Manufactures, Sheets, P.V.C.

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P.V.C.-CHLORINATED POLYTHENE

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PACIFIC OCEAN TRUST TERRITORY

See

FISHING, Micronesia

PACING, Machinery operation. See MACHINERY, Operation, Pacing

PACING, Work study. See WORK STUDY, Pacing

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PACKAGED BOILERS. See BOILERS, Packaged

PACKAGED DEALS, Building. See BUILDING, Contracts, Packaged deals

PACKAGED DEALS, Factories, Clothing manufactures. See CLOTHING, Manufactures, Factories, Packaged deals

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TANKERS, Ships, Steam turbines, Packaged

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PACKAGES, Ring frames, Spinning, Worsted yarn. See

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PACKAGING

Related Headings:

BALING

BOARD, Paper, Packaging materials

BOTTLING

CANNING

CONTAINERS

ENCAPSULATION

FIBRE BOARD, Packaging materials

FILM, Cellulose butyrate, Packaging materials

FILM, Hydroxyethyl cellulose, Packaging

FILM, P.V.C., Packaging materials

FILM, Plastics, Packaging materials

FILM, Polypropylene, Oriented, Packaging materials

FILM, Polystyrene, Packaging materials

FILM, Thermoplastics, Packaging materials

FOOD, Labels

PACKAGING

Related Headings—cont.

LABELS

PARCELS

PLASTICS, Packaging materials

POLYMERS, Expanded, Packaging materials

POLYPROPYLENE, Packaging materials

POLYTHENE, Expanded, Packaging

THERMOPLASTICS, Packaging materials

PACKAGING—SUBHEADINGS—Synopsis

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Education

Research

Plant & Equipment

Machines

Factories

Processes

Critical path analysis

Design

Testing

Cushioning

Displays

Sealing

Stapling

Labelling

Materials

Strapping

Adhesives

Papers

Types of package

Cases

Tubes

Blister

Skin

Vacuum

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PACKAGING, Blister

Blister packaging. P. B. Feldman. *Applied Plastics*, 8 (May 65) p.28+. il.

Bocchi skin-packaging and blister-packaging systems.

Packaging, 36 (Sep 65) p.46-8. il.

Fully automatic blister-packaging machine [Brandenburger]

Packaging, 36 (Feb 65) p.88+. il.

PACKAGING, Blister, Drugs. See DRUGS, Packaging, Blister

PACKAGING, Butter. See BUTTER, Packaging

PACKAGING, Cans. See CANS, Packaging

PACKAGING, Cans, Beer. See BEER, Cans, Packaging

PACKAGING, Cases, Fibre board

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PACKAGING, Cases, Fibre board, Corrugated

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Cross-fluted corrugated fibreboard shipping-cases [Fortress] *Packaging*, 36 (Dec 65) p.37-9. il.

PACKAGING, Cases, Fibre board, Corrugated, Performance

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PACKAGING, Materials, Slitting, Machines

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Kampf slitting and re-winding machines. Packaging, 36 (Aug 65) p.77-8. il.

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- PACKAGING, Potato crisps.** See **POTATOES, Crisps, Packaging**
- PACKAGING, Printing products.** See **PRINTING, Products, Packaging**
- PACKAGING, Research**
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- PACKAGING, Sausages.** See **SAUSAGES, Packaging**
- PACKAGING, Sealing, Tapes**
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Advances in sealing and labelling (contd.) F. T. Day. *Canning & Packing*, 35 (Apr 65) p.11
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- PACKAGING, Seeds.** See **SEEDS, Packaging**
- PACKAGING, Skin**
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Polytite is more than skin deep [Bowater Packaging Ltd. & Platt Bros. of Odham Ltd.] *Packaging Rev.*, 85 (Sep 65) p.16+. il.
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- PACKAGING, Spheres.** See **SPHERES, Packaging**
- PACKAGING, Stapling, Machines**
'Golden Belt' stapling system. *Packaging*, 36 (Jan 65) p.100-1. il.
- PACKAGING, Stockings.** See **STOCKINGS, Packaging**
- PACKAGING, Strapping, Compression, Machines**
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- PACKAGING, Sweets.** See **SWEETS, Packaging**
- PACKAGING, Testing**
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- PACKAGING, Thermoplastic film.** See **FILM, Thermoplastics, Packaging**
- PACKAGING, Tobacco products.** See **TOBACCO, Products, Packaging**
- PACKAGING, Tubes, Filling, Machines**
Arenco tube-filling machines. *Packaging*, 36 (Mar 65) p.57+. il.
- PACKAGING, Tubes, Polypropylene**
Tuberama parade. *Packaging*, 36 (Jan 65) p.76-9. il.
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Tuberama parade. *Packaging*, 36 (Jan 65) p.76-9. il.
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Fully automatic sachet-forming, loading and vacuum/gas package sealing machine [AWO Compac] *Packaging*, 35 (Dec 64) p.52-4. il.
- PACKAGING, Vacuum, Powders, Milk.** See **MILK, Powders, Packaging, Vacuum**
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- PACKED BEDS, Air flow, Diffusion coefficients, Determination, Tracers, Mercury vapour**
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- PACKED BEDS, Fluid flow**
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- PACKED COLUMNS, Countercurrent, Carbon, Vapour phase adsorption, Separation, Benzene-Ethyl alcohol.** See **BENZENE-ETHYL ALCOHOL, Separation, Adsorption, Vapour phase, Carbon, Packed columns, Countercurrent**
- PACKED COLUMNS, Distillation, Butyl acetate-Water.** See **BUTYL ACETATE-WATER, Distillation, Packed columns**
- PACKED COLUMNS, Packing, Grids, Flow**
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- PACKED COLUMNS, Packing, Overflow, Mass transfer**
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- PACKED TOWERS, Plates, Plastics, Reinforced**
Support plates & hold-down plates in packed towers. *Reinforced Plastics*, 10 (Oct 65) p.45-6. il.
- PACKING, Binary powders.** See **POWDERS, Binary, Packing**
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- PADDLE WHEELS, Steam boats.** See **BOATS, Steam, Paddle wheels**
- PADS, Disc brakes, Motor cars.** See **MOTOR CARS, Brakes, Disc, Pads**
- PADS, Pressure, Spherical, Extrusion, Metals.** See **METALS, Extrusion, Pressure pads, Spherical**
- PAGES, Books.** See **BOOKS, Pages**
- PAINT**
Coatings: paints or plastics? P. Whiteley. *Architect & Building News*, 227 (21 Apr 65) p.754-7
Constant search for improved properties. H. R. Touchin. *Municipal J.*, 73 (24 Sep 65) p.3260-1. il.
New trends in paint manufacture. I. Feuer. *Paint Technology*, 29 (Sep 65) p.19-22. il. refs.
Paint systems. B. W. Cherry. *Engng. Materials & Design*, 8 (May 65) p.318-22. il. refs.

PAINT—cont.

Point types. P. Whiteley. *Architect & Building News*, 227 (21 Apr 65) p.757-61

Paint types and manufactures. *Architect & Building News*, 227 (21 Apr 65) p.762-7

Paints, general: introduction. A. A. Macfarlane. *Architect & Building News*, 227 (21 Apr 65) p.753-4

PAINT

Related Headings:

ANTI-FOULING COMPOSITIONS
WHITING

PAINT—SUBHEADING—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Particular countries
U.S.A.

Research**Properties**

Viscoelasticity
Viscometers
Hardness
Microindentation
Opacity
Durability

Technical activities

Testing
Microscopy
Exposure tests
Manufacture
Mixing
Mixers
Application
Spraying
Stoving
Stripping

Materials

Pigments
Solvents

Types

By property
Stoving
Water thinned
Enamel
Hammer finish
By vehicle or pigment
Organic
Vinyl dioxolanes
Plastics
Alkyd resin
P.V.C.
Polyesters
Acrylic
Polyurethane
Emulsion
Inorganic
Zinc-Alkali silicates
By purpose
Priming
Fire retardant
Fungicidal
Insecticidal

PAINT, Acrylic, Glass fibre reinforced plastics,
Bodies, Commercial vehicles. See **VEHICLES**,
Commercial, Bodies, Plastics, Reinforced—Glass fibre,
Paint, Acrylic

PAINT, Acrylic, Lighting fittings. See **LIGHTING**, Fittings,
Paint, Acrylic

PAINT, Acrylic, Molecular weight

Influence of molecular weight distribution on the properties
of acrylic and alkyd polymers. D. H. Solomon. *J. of Oil*
& Colour Chemists' Ass., 48 (Mar 65) p.282-92. il. refs.

PAINT, Acrylic, Thermosetting

New thermosetting acrylic resin. *Chemical Processing*, 11
(Feb 65) p.34-41. il.

Review of development of thermosetting acrylics. P. J.
Smedley. *Metal Finishing J.*, 11 (Jan 65) p.5+. il. refs.

PAINT, Alkyd resins, Modified, Allyl ethers

Allyl ethers in solventless and water-based coatings. L. A.
O'Neill & R. A. Brett. *J. of Oil & Colour Chemists' Ass.*,
48 (Nov 65) p. 1025-42. il. refs.

PAINT, Alkyd resins, Modified, Lactic acid

Further investigation of short oil lactic pentaerythritol
alkyds. H. R. Touchin. *J. of Oil & Colour Chemists'*
Ass., 48 (Jul 65) p.587-96. refs.

PAINT, Alkyd resins, Modified, Vinyl

Inherent properties of paint latex films in relation to their
performance. H. A. Oosterhof. *J. of Oil & Colour*
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Influence of molecular weight distribution on the properties
of acrylic and alkyd polymers. D. H. Solomon. *J. of Oil*
& Colour Chemists' Ass., 48 (Mar 65) p.282-92. il. refs.

PAINT, Alkyd resins, Viscometers

Use of the CSIRO viscosity ratiometer with resinous
materials. J. K. Haken. *J. of Oil & Colour Chemists'*
Ass., 48 (Aug 65) p.663-9. il.

PAINT, Alkyd resins, Water thinned

Progress of water soluble resins in industrial finishing.
L. Tasker & J. R. Taylor. *J. of Oil & Colour Chemists'*
Ass., 48 (Feb 65) p.121-49. il. refs.

PAINT, Bodies, Motor cars. See **MOTOR CARS**, Bodies, Paint

PAINT, Building components. See **BUILDINGS**, Components,
Paint

PAINT, Durability

Surface treatment. S. H. Bell. *Chemistry & Industry* (21
Aug 65) p.1485-7

PAINT, Emulsion, Polyvinylidene chloride

Polyvinylidene chloride emulsions for the production of
gloss emulsion paints. J. C. Bax. *Paint Technology*, 29
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PAINT, Enamel, White, Zinc oxide, Gloss, Retention

Interior gloss retention of white enamels. D. S. Newton. *J.*
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refs.

PAINT, Epoxy resin, Ships. See **SHIPS**, Paint, Epoxy resins

PAINT, Exposure tests

Outdoor exposure testing [Desert Exposure Station,
Phoenix, Arizona] *Paint Technology*, 29 (Aug 65)
p.42. il.

PAINT, Fans. See **FANS**, Paint

PAINT, Fences, Parks. See **PARKS**, Fences, Paint

PAINT, Fire retardant

Fire retardance. G. Old. *Painting & Decorating*, 85 (Mar
65) p.29-30

PAINT, Fire retardant, Buildings. See **BUILDINGS**, Paint,
Fire retardant

PAINT, Acrylic, Buildings. See **BUILDINGS**, Paint, Acrylic

PAINT, Fire retardant, Chlorinated rubber

Flame retardant paint based on chlorinated rubber: use of an Alloprene/dehydrated castor oil based top coat over an intumescent paint undercoat may help to give both a safe system from the point of view of fire and one that will be acceptable to the customer. D. P. McDonald. *Chemical Processing*, 11 (May 65) p.24-5. il.

PAINT, Fungicidal, Mercury compounds, Volatilisation

Loss of mercury from fungicidal paints. C. G. Taylor. *J. of Applied Chemistry*, 15 (May 65) p.232-6. refs.

PAINT, Fungicidal, Tropics

Mould resistant decorative paints for the tropics. P. Whiteley. *J. of Oil & Colour Chemists' Ass.*, 48 (Feb 65) p.172-204. il. refs.

PAINT, Galvanised steel. See STEEL, Galvanised, Paint**PAINT, Hammer finish**

Hammerstone finishes, pt.1. P. N. Tandon & A. C. Gupta. *Paint Technology*, 29 (Feb 65) p.37-9. refs.

Hammerstone finishes, pt.2: experimental. P. N. Tandon & A. C. Gupta. *Paint Technology*, 29 (Mar 65) p.56+. refs.

PAINT, Hulls. See HULLS, Paint**PAINT, Industry, Great Britain**

Progress in the paint industry. L. Valentine. *Surface Coatings*, 1 (Jan 65) p.6

PAINT, Industry, Sweden

Swedish paint industry: review of its structure and achievements. *Surface Coatings*, 1 (Apr 65) p.136-7. il.

PAINT, Insecticidal

Insecticidal paints. G. Old. *Painting & Decorating*, 85 (May 65) p.31-2. il.

PAINT, Iron. See IRON, Paint**PAINT, Manufacture, Mills**

Equipment for the paint industry, pt.1: mills. *Paint Technology*, 29 (Jan 65) p.32-6. il.

PAINT, Metals. See METALS, Paint**PAINT, Microindentation, Testing, Equipment**

Pneumatic micro-indentation apparatus for measuring the hardness of paint coatings. C. J. H. Monk & T. A. Wright. *J. of Oil & Colour Chemists' Ass.*, 48 (Jun 65) p.520-8. il. refs.

PAINT, Microscopy

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PAINT, Mixers

Equipment for the paint industry, pt.2: mixers. *Paint Technology*, 29 (Mar 65) p.62+. il.

PAINT, Nuclear energy equipment. See NUCLEAR ENERGY, Equipment, Paint**PAINT, Opacity, Measurement, Contrast ratio**

Hiding power and film thickness. S. Wilska. *Paint Technology*, 29 (Jun 65) p.17-22. il. refs.

PAINT, P.V.C., Stabilisers, Epoxy resins

Effectiveness of epoxy stabilisers for vinyl coatings as influenced by type and concentration. J. P. McGuigan. *Paint Technology*, 29 (Nov 65) p.24-9. il. refs.

PAINT, Pigments, Artists'

Permanence of artists' pigments, pt.4. H. Hartridge. *Paint Technology*, 29 (Jan 65) p.12+. ref.

PAINT, Pigments, Dispersion

Pigment particles and film properties. S. H. Bell. *Brit. Ink Maker*, 8 (Nov 65) p.21+. il.

PAINT, Pigments, Dispersion, Ball mills

Automatic and continuous grinding of paints and inks [Perl mill] B. Potter. *Paint Technology*, 29 (Jul 65) p.28-9. il.

Laboratory evaluation of the behaviour of coloured pigments on ball-milling. H. G. Cook. *J. of Oil & Colour Chemists' Ass.*, 48 (Jan 65) p.17-42. il. refs.

PAINT, Pigments, Dispersion, Grinding, Wettability, Determination, Contact angle

Determination of the contact angle for systems with a powder. N. W. F. Kossen & P. M. Heertjes. *Chemical Engng. Science*, 20 (Jun 65) p.593-9. il. refs.

PAINT, Pigments, Dispersion, Sand grinding

Rapid laboratory grinding technique [Reichold Chemicals Inc., South San Francisco Service Laboratories] F. V. Becker & N. S. Estrada. *Paint Technology*, 29 (Aug 65) p.45-51. il.

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PAINT, Pigments, Inorganic, Analysis

Systematic qualitative analysis of inorganic pigment mixtures (supplement) E. Hezel. *Paint Technology*, 29 (Jul 65) p.13+

PAINT, Pigments, Lead, Corrosion inhibition, Studies, Potential curves

Metallic lead pigment—potential time curves. T. D. Hamlin & G. L. E. Wild. *Paint Technology*, 29 (Jan 65) p.46-9. il.

PAINT, Pigments, Lead, Law

Recent lead safety legislation. V. A. Broadhurst. *Paint Technology*, 29 (Aug 65) p.22-4

PAINT, Pigments, Phthalocyanine

Phthalocyanine pigments and their application. R. F. Hill. *J. of Oil & Colour Chemists' Ass.*, 48 (Jul 65) p.603-12. il. refs.

PAINT, Pigments, Polarography

Polarographic analysis of point pigments [NBS Institute for Applied Technology (U.S. Department of Commerce)] *Chemical Processing*, 11 (Dec 65) p.36-7. il.

PAINT, Pigments, Steel, Stainless

Stainless steel pigments: cost comparison between a conventional and a stainless steel pigmented finish [Stay-Steel] *Paint Technology*, 29 (Jul 65) p.24-5. il.

PAINT, Pigments, Titanium dioxide, Additives

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New polymers for the paint industry. L. A. O'Neill. *Chemical Processing*, 11 (Jun 65) p.514-18. il. refs.

PAINT, Plastics, Markings, Roads. See ROADS, Markings, Paint, Plastics**PAINT, Plastics, Thermosetting, Water thinned**

Water soluble thermosetting organic polymers. J. J. Hopwood. *J. of Oil & Colour Chemists' Ass.*, 48 (Feb 65) p.157-71. il. refs.

PAINT, Playground equipment. See PLAYGROUNDS, Equipment, Paint**PAINT, Polyesters**

Decoration in depth, pt.1. J. Leeming. *Painting & Decorating*, 85 (Sep 65) p.27+. il.

Decoration in depth, pt.2. J. Leeming. *Painting & Decorating*, 85 (Oct 65) p.26+. il.

Water soluble resins and polyester resins for industrial and constructional applications. *Paint Technology*, 29 (Mar 65) p.32-33. il.

PAINT, Polymers, Buildings. See BUILDINGS, Paint, Polymers**PAINT, Polyurethane**

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PAINT, Priming

Basic facts about primers: summary of "Primers for paint systems". A. D. Walker. *Industrial Finishing*, 17 (May 65) p.32+

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PAINT, Priming, Steel, Furniture. See FURNITURE, Steel, Paint, Priming

PAINT, Priming, Zinc phosphate

High performance zinc phosphate primers summary of: "New leadless anti-corrosive primers". J. Barraclough & J. B. Harrison. *Industrial Finishing*, 17 (Feb 65) p.37-8

PAINT, Research, Laboratories

I.C.I. Paints Division laboratories. *Paint Technology*, 29 (Jul 65) p.19-23. il.

Lewis Berger Laboratories. *Paint Technology*, 29 (Aug 65) p.25-8. il.

PAINT, Seats, Parks. See PARKS, Seats, Paint

PAINT, Ships. See SHIPS, Paint

PAINT, Solvents, Flammable, Law

Legislation for flammable solvents. V. A. Broadhurst. *Paint Technology*, 29 (Nov 65) p.41+. il.

PAINT, Solvents, Industrial health, Law

Health legislation for solvents. V. A. Broadhurst. *Paint Technology*, 29 (Oct 65) p.28-30

PAINT, Spraying, Electrostatic

Electrostatic coating process, pt.2. E. P. Miller & L. L. Spiller. *Paint J.*, 17 (Dec 64) p.514

PAINT, Spraying, Electrostatic, Guns

One hundred thousand volts of spray-power [Hursant Electronics Penetrator & Championaire] *Industrial Finishing*, 17 (Apr 65) p.29+. il.

Spraying in the wind [Weathermaster spraygun] *Product Finishing*, 18 (Aug 65) p.77-8. il.

PAINT, Springs, Seats. See SEATS, Springs, Paint

PAINT, Steel. See STEEL, Paint

PAINT, Steering wheels, Motor vehicles. See MOTOR VEHICLES, Steering wheels, Paint

PAINT, Stoving, Ovens, Gas fired

Gas Board's help to stove enameller's growth [Industrial Storing Co. Ltd.] *Product Finishing*, 18 (Feb 65) p.82-4. il.

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PAINT, Stoving, Ovens, Solvents, Vapours, Waste heat recovery

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PAINT (Stoving) Trichlorethylene-thinned

Trichloroethylene paints. *Paint Technology*, 29 (Mar 65) p.46-7. il.

PAINT, Stripping

Approaches to paint stripping. E. K. Scott. *Industrial Finishing*, 17 (Apr 65) p.24+. il.

PAINT, Stripping, Chemicals

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PAINT, Temperature measurement, Surfaces. See SURFACES, Temperature, Measurement, Paint

PAINT, U.S.A.

Protective coatings industry in the United States, pt.8. "Americus". *Paint Technology*, 29 (Jan 65) p.50-3

PAINT, Vinyl dioxolanes

Chemistry of the vinyl cyclic acetals and their air drying reactions. S. Hochberg. *J. of Oil & Colour Chemists' Ass.*, 48 (Nov 65) p.1043-68. il. refs.

PAINT, Viscoelasticity, Testing, Pendulums, Torsion

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PAINT, Viscometers, Cone and plate

Measurement of viscosity at high rates of shear: cone and plate attachment for the "I.C.I. Rotothinner". C. J. H. Monk. *J. of Oil & Colour Chemists' Ass.*, 48 (Feb 65) p.150-6. il. refs.

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PAINT, Zinc-Alkali silicates

Alkali silicates in surface coatings: with special reference to zinc-alkali silicate systems. A. Pass & M. J. F. Meason. *J. of Oil & Colour Chemists' Ass.*, 48 (Oct 65) p.897-935. il. refs.

PAINTED METALS. See METALS, Painted

PAINTED STEEL, Plates, Ships. See SHIPS, Plates, Steel, Painted

PAINTED TANKS, Tankers, Ships. See TANKERS, Ships, Tanks, Painted

PAINTING

Related Headings:

DIPPING

PAINTING, Acoustic materials, Buildings. See BUILDINGS, Acoustics, Materials, Painting

PAINTING, Agricultural equipment. See AGRICULTURAL EQUIPMENT, Painting

PAINTING, Boats. See BOATS, Painting

PAINTING, Bodies, Buses. See BUSES, Bodies, Painting

PAINTING, Bodies, Motor caravans. See MOTOR CARAVANS, Bodies, Painting

PAINTING, Bodies, Motor cars. See MOTOR CARS, BODIES, Painting

PAINTING, Bodies, Motor coaches. See MOTOR COACHES, Bodies, Painting

PAINTING, Buildings. See BUILDINGS, Painting

PAINTING, Castings, Xerography machine components. See XEROGRAPHY, Machines, Components, Castings, Painting

PAINTING, Ceilings. See CEILINGS, Painting

PAINTING, Churches. See CHURCHES, Painting

PAINTING, Decorative, Barges. See BARGES, Painting, Decorative

PAINTING, Dishwasher components. See DISHWASHERS, Components, Painting

PAINTING, Drums. See DRUMS, Painting

PAINTING, Education

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Stove enamellers build own electropainting plant [Southern Industrial Finishers', Southampton] *Product Finishing*, 18 (Oct 65) p.65-6. il.

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PAINTING, Electrophoresis, Electric cookers. See COOKERS, Electric, Painting, Electrophoresis

PAINTING, Electrophoresis, Film resistivity, Effect of pigments

Pigmentation of finishes for electrodeposition. L. Tasker & J. R. Taylor. *J. of Oil & Colour Chemists' Ass.*, 48 (May 65) p.462-80. il. refs.

PAINTING, Electrophoresis, Film resistivity, Effect of titanium dioxide pigments

Influence of the surface treatment of titanium dioxide pigments on electrocoating. H. Rechmann. *J. of Oil & Colour Chemists' Ass.*, 48 (Sep 65) p.837-81. il. refs.

PAINTING, Electrophoresis, Physical chemistry

Mechanism of electrophoretic deposition. D. R. Brown & F. W. Salt. *J. of Applied Chemistry*, 15 (Jan 65) p.40-8. il. refs.

PAINTING, Exposed building materials, Wood. See **WOOD, Building materials, Exposed, Painting**

PAINTING, Exteriors, Houses. See **HOUSES, Exteriors, Painting**

PAINTING, Facades, Retail shops. See **SHOPS, Retail, Facades, Painting**

PAINTING, Farm buildings. See **FARM BUILDINGS, Painting**

PAINTING, Farm tractors. See **TRACTORS, Farm, Painting**

PAINTING, Fork trucks. See **FORK TRUCKS, Painting**

PAINTING, Hospitals. See **HOSPITALS, Painting**

PAINTING, Household appliances. See **HOUSEHOLD APPLIANCES, Painting**

PAINTING, Industrial buildings. See **INDUSTRIAL BUILDINGS, Painting**

PAINTING, Lining, Tanks, Tankers, Ships. See **TANKERS, Ships, Tanks, Lining, Painting**

PAINTING, Machine tools. See **MACHINE TOOLS, Painting**

PAINTING, Machinery. See **MACHINERY, Painting**

PAINTING, Maintenance, Bodies, Motor cars. See **MOTOR CARS, Bodies, Maintenance, Painting**

PAINTING, Metals. See **METALS, Painting**

PAINTING, Motor car parts. See **MOTOR CARS, Parts, Painting**

PAINTING, Platforms, Off shore drilling, Petroleum. See **PETROLEUM, Drilling, Off shore, Platforms, Painting**

PAINTING, Production, Control

Some developments in production flow in industrial paint shops. B. Van der Bruggen. *Metal Finishing J.*, 11 (Oct 65) p.404-13. il.

PAINTING, Refrigerators. See **REFRIGERATORS, Painting**

PAINTING, Ships. See **SHIPS, Painting**

PAINTING, Slaughterhouses. See **SLAUGHTERHOUSES, Painting**

PAINTING, Steel plates, Bottoms, Hulls. See **HULLS, Bottoms, Plates, Steel, Painting**

PAINTING, Suspension bridges. See **BRIDGES, Suspension, Painting**

PAINTING, Tanks, Fuels, Engines, Motor vehicles. See **MOTOR VEHICLES, Engines, Fuels, Tanks, Painting**

PAINTING, Tilt cabs, Commercial vehicles. See **VEHICLES, Commercial, Cabs, Tilt, Painting**

PAINTING, Tractors. See **TRACTORS, Painting**

PAINTING, Walls, Buildings. See **BUILDINGS, Walls, Painting**

PAINTING, Washing machine components. See **WASHING MACHINES, Components, Painting**

PAINTING, Workshops, Fires, Prevention

Fire hazards and painting processes. *Product Finishing*, 18 (Mar 65) p.57-61

PAINTINGS, Oil, Deterioration

Paintings of Delacroix—study in paint deterioration.

P. J. Barnes. *Paint Technology*, 29 (Aug 65) p.34-5

PAKISTAN

See

CANALS, Indus basin

DAMS, Mangla

ELECTRIC POWER SYSTEMS, West Pakistan

GAS, Natural, Pakistan

PRAWNS, Culture, Pakistan

RAILWAYS, East Pakistan

RAILWAYS, Karachi

TOWN PLANNING, Islamabad

PALLADIUM, Electroplating, Joints, Electrical equipment.

See **ELECTRICAL EQUIPMENT, Joints, Electroplating, Palladium**

PALLADIUM—GOLD, Films. See **FILMS, Gold—Palladium**

PALLADIUM—HYDROGEN, Electrodes, Hydrogen—Oxygen

fuel cells. See **FUEL CELLS, Hydrogen—Oxygen,**

Electrodes, Palladium—Hydrogen

PALLADIUM—PAPER, Laminates, Vacuum packaging,

Powders, Milk. See **MILK, Powders, Packaging, Vacuum,**

Laminates, Paper—Palladium

PALLADIUM (II), Solvent extraction (Butyl alcohol) 2-Thenoyltrifluoroacetone

Extraction and spectrophotometric determination of

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PALLETS

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PALLETS, Cargoes. See **CARGOES, Pallets**

PALLETS, Loaders, Cartons. See **CARTONS, Pallet loaders**

PALLETS, Manufactures

Bambergers mechanise pallet production. D. Hollier. *Woodworking Industry*, 22 (Jan 65) p.21-4. il.

PALLETS, Roll

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Palletisation and design of road vehicles. W. Ganniccliffe. *Inst. of Transport J.*, 31 (Sep 65) p.207-10

PALLETS, Warehouses

Evolution of adjustable pallet racking. C. Hardie.

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Pallet converters give 66 per cent increase in capacity.

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PALMAROSA OIL

Study of water soluble constituents of palmarosa oil

Cymbopogon Martini var. motia. N. C. Shah & B. C. Gulati. *Perfumery & Essential Oil Record*, 56 (Jul 65) p.435-7. il. refs.

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See

HYDROELECTRIC POWER STATIONS, Pumped storage, Pamuleru River

PANAMINE

Structures of ormosinine and panamine. E. M. Wilson.

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PANEL PLANERS. See **THICKNESSERS****PANELS (Buildings) Concrete, Precasting, Vertical**

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Techniques of making large concrete units (summary) K. J. Seymour-Walker. *Surveyor*, 127 (27 Nov 65) p.28-9. il.

Three ways to make big concrete panels [Building Research Station] *Engineering*, 200 (29 Oct 65) p.566. il.

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Zinc-coated steel sheet and strip in building. G. K. Walden & F. C. Porter. *Sheet Metal Industries*, 42 (Oct 65) p.783-9. il. refs.

PANELS (Buildings) Wood

Modern trends in wood panelling. E. H. Richardson. *Wood*, 30 (Nov 65) p.46-7. il.

PANELS, Cavity backed, Vibrations

Free vibrations of a rectangular panel backed by a closed rectangular cavity. A. J. Pretlove. *J. of Sound & Vibration*, 2 (Jul 65) p.197-209. il. refs.

PANELS, Cladding, Police buildings. See **POLICE, Buildings, Cladding, Panels**

PANELS, Concrete, Prefabrication, Housing. See **HOUSING, Prefabrication, Panels, Concrete**

PANELS, Control systems, Power stations. See **POWER STATIONS, Control systems, Panels**

PANELS, Controls, Control systems, Machine tools. See **MACHINE TOOLS, Control systems, Controls, Panels**

PANELS (Controls) Design

Keeping up appearances, pt.3. F. Bradbury. *Fluid Power International*, 30 (Jul 65) p.218-20. il.

PANELS, Controls, Electrical installations, Trade union buildings. See **TRADE UNION BUILDINGS, Electrical installations, Control panels**

PANELS, Decorative, Entrance halls, Flats. See **FLATS, Entrance halls, Panels, Decorative**

PANELS (Flats) Concrete, Precasting, Vertical

Battery casting; interim report on the Building Research Station's technique. J. Jordan. *Architects' J.*, 141 (Jan 65) p.235-41. il. refs.

PANELS (Flats) Plastics, Reinforced—Glass fibre

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Two London tower blocks clad with polyester-glass panels. *Reinforced Plastics*, 10 (Nov 65) p.70+. il.

PANELS, Honeycomb, Aircraft structures. See **AIRCRAFT, Structures, Panels, Honeycomb**

PANELS (Houses) Brickwork, Prefabricated

Prefabricated brick cladding panels ["Phorpres" Claywall Cladding Panels]. *Industrialised Building*, 2 (Aug 65) p.6-9. il.

PANELS (Houses) Wood, Prefabricated, Manufactures

System firm to supply components: wall units to be produced in works extension [Medway Buildings] *Industrialised Building*, 2 (Sep 65) p.78-9. il.

PANELS (Housing) Asbestos cement, Diamond machining

Solving Holland's housing shortage. E. C. Veldhuizen. *Industrial Diamond Rev.*, 25 (Nov 65) p.493-5. il.

PANELS, Metals, Radiators. See **RADIATORS, Panels, Metals**

PANELS, Plywood, Roofing. See **ROOFING, Panels, Plywood**

PANELS, Polyurethane, Expanded, Prefabricated factories.

See **FACTORIES, Prefabricated, Panels, Polyurethane, Expanded**

PANELS, Roofing. See **ROOFING, Panels**

PANELS, Structures, Supersonic aircraft. See **AIRCRAFT, Supersonic, Structures, Panels**

PANELS, Wood, Cutting, Saws

Panel cutting—and machine saw adaptation. R. Adkins. *Woodworking Industry*, 22 (May 65) p.27-30. il.

PANELS, Wood, Walls, Houses. See **HOUSES, Walls, Panels, Wood**

PANS, Heating, Crystallisation, Masecuite, Sugar. See **SUGAR, Masecuite, Crystallisation, Heating, Pans**

PANS, Thick walled, Stirred, Heat transfer, Water. See **WATER, Heat transfer, Pans, Thick walled, Stirred**

PANTOGRAPHS, Overhead power transmission lines, Electric railways. See **RAILWAYS, Electric, Power transmission lines, Overhead, Pantographs**

PAPER

Paper's versatility aids industry (summary) B. J. R. Carey. *World's Paper Trade Rev.*, 164 (2 Sep 65) p.694

PAPER**Related Headings:**

NEWSPRINT
PARCHMENT PAPER
STATIONERY
WALLPAPERS
WRITING PAPER

PAPER—SUBHEADINGS—Synopsis

This synopsis shows, in *italic*, related subheadings which are separated in the alphabetical sequence following.

Properties**Sizes**

Trim

Thickness

Strength

Elastic modulus

Rupture

Burst testing

Technical activities

Testing

Inspection

Converting

Coating

Finishing

Cutting

Guillotines

Embossing

Graining

Folding

Winding

Reels

Sorting

Mechanical handling

Loading

Transporting

Waste**Types of paper**

Coated

No carbon required

Extensible

Tracing

Tissue

Products**Applications**

Electrical insulating materials

Oil impregnated

PAPER, Bags. See **BAGS, Paper**

PAPER, Board. See **BOARD, Paper**

PAPER, Board, Boxes. See **BOXES, Paper board**

PAPER, Board, Cartons. See **CARTONS, Paper board**

PAPER, Board, Cartons, Frozen food. See **FOOD, Frozen, Cartons, Paper board**

PAPER, Board, Containers. See **CONTAINERS, Board**

PAPER, Board, Containers, Cosmetics. See **COSMETICS, Containers, Board, Paper**

PAPER, Board, Containers, Drugs. See **DRUGS, Containers, Board, Paper**

PAPER, Board, Printing. See **PRINTING, Board, Paper**

PAPER, Board, Thermoplastic film, Packaging, Food. See **FOOD, Packaging, Film, Thermoplastics, Paper board**

PAPER, Burst testing, Equipment, Calibration

Burst tester calibration check service. *What We Are*

Doing (Dec 64) p.20-8. il.

- PAPER, Burst testing, Equipment, Clamps**
Burst tester calibration check service clamping survey and paper run. What We Are Doing (Jun 65) p.42-3
- PAPER, Coated, Manufactures**
Specialised converting—Sterling story. World's Paper Trade Rev., 164 (26 Aug 65) p.627+. il.
- PAPER, Coated, Packaging**
Speciality coated papers. F. T. Day. Canning & Packing, 35 (Sep 65) p.10
Speciality coated papers (contd.) F. T. Day. Canning & Packing, 35 (Oct 65) p.12-13
- PAPER, Coated, Printing.** See **PRINTING, Paper, Coated**
- PAPER, Coated, Sheet-fed offset lithography.** See **LITHOGRAPHY, Sheet-fed offset, Paper, Coated**
- PAPER, Coating**
Surface finish and finishing processes on paper and board. F. T. Day. Brit. Printer, 78 (Aug 65) p.110+. il.
- PAPER, Coating, Air knives**
Off-machine air knife pigment coating. C. R. Denney. What We Are Doing (Jun 65) p.20-4. refs.
- PAPER, Coating, China clay, Determination, X-ray absorption**
Monitoring of clay content. F. A. Shabi, W. T. Gartland, B. Adams & S. E. Cockersell. Paper Technology, 6 (Aug 65) p.322. il.
- PAPER, Coating, Control systems, Computers, Programs**
Aufstellung des Arbeitsprogrammes für Papiermaschinen, teil 2: die Anwendung für ein kompliziertes Streichsystem. E. Jowett. Paper Maker (International no.1965) p.77+. il.
Machine programming, pt.2: application to a complex coating system. E. Jowett. Paper Maker, 150 (Jul 65) p.62-4. il.
- PAPER, Coating, Gelatin**
Paper making raw materials, pt.3: gelatine, pt.1. S. M. Charlett. Paper Maker, 150 (Aug 65) p.49+
Paper making raw materials, pt.3: gelatine, pt.2. S. M. Charlett. Paper Maker, 150 (Sep 65) p.81-3. il.
- PAPER, Coating, Polymers**
Resins in the textile and paper industries. J. K. Skelly. Chemistry & Industry (9 Jan 65) p.50-6. il. refs.
- PAPER, Coating, Polythene**
Modified low molecular weight polymer improves coating performance. J. E. Dickert. Chemical Processing, 11 (Jan 65) p.72-6. il.
- PAPER, Coating, Sodium alginate**
Review of the use of sodium alginate in paper manufacture. K. A. Hilton. World's Paper Trade Rev., 164 (9 Dec 65) p.1797+
- PAPER, Conducting, Simulation, Laplacian fields.** See **LAPLACIAN FIELDS, Simulation, Paper conducting**
- PAPER, Converting, Machines**
Dietzco-Dixon paper converting machinery. Packaging, 36 (Oct 65) p.50-2. il.
- PAPER, Converting, Machines, Manufactures**
U.S. converting machine firm opens new factory at Plymouth. World's Paper Trade Rev., 163 (22 Apr 65) p.1212+. il.
- PAPER, Converting, Machines, Rollers, Rubber**
Rubber covered rollers in paper converting [Harefield Rubber Co. Ltd.] World's Paper Trade Rev., 163 (11 Mar 65) p.707-8. il.
- PAPER, Cutting, Machines**
New sorter-cutter in operation at Stoneywood [Wiggins Teape's Stoneywood Mill] World's Paper Trade Rev., 164 (18 Nov 65) p.1556+. il.
- PAPER, Elastic modulus**
Theory of the elastic modulus of paper. D. H. Page. Brit. J. of Applied Physics, 16 (Feb 65) p.253-8. il. refs.
- PAPER, Electrical insulating materials**
Paper in power cables (summary) D. T. Hollingsworth. Engineer, 220 (12 Nov 65) p.793-4
- PAPER, Electrical insulating materials—cont.**
Paper insulation for cables still supreme (summary) D. T. Hollingsworth. Electrical Rev., 177 (29 Oct 65) p.633-4. il.
Paper insulation in the electrical industry (summary) D. T. Hollingsworth. Electronics & Power, 11 (Nov 65) p.383
Paper insulation in the electrical industry (summary) D. T. Hollingsworth. Scottish Electrical Engr., 36 (Dec 65) p.712+
Paper still the choice: I.E.E. power division chairman puts case for paper against synthetics as insulation. D. T. Hollingsworth. Electrical Times, 148 (28 Oct 65) p.653-4. il.
- PAPER, Electrical insulating materials, Effect of moisture**
Relation between moisture content and low-voltage electrical properties of oil-impregnated, resin-coated and unimpregnated papers. T. E. Constantinou. Proc. of the Instn. of Electrical Engrs., 112 (Sep 65) p.1783-94. il. refs.
- PAPER, Electrostatic copying.** See **COPYING, Electrostatic, Paper**
- PAPER, Embossing**
Surface graining and embossing as finishing processes for printed and plain work. F. T. Day. Brit. Printer, 78 (Jan 65) p.73-5. il.
- PAPER, Extensible**
Extensible paper—its development, production and use. E. M. Burrow. Paper Technology, 6 (Oct 65) p.423-30. il. refs.
- PAPER, Finishing, Mechanical handling**
Finishing process handling in the paper mill. Paper Maker, 150 (Jul 65) p.74+
- PAPER, Folding, Machines**
Beat the finishing bottleneck. Reproduction, 2 (Nov 65) p.30-3. il.
- PAPER, Graining**
Surface graining and embossing as finishing processes for printed and plain work. F. T. Day. Brit. Printer, 78 (Jan 65) p.73-5. il.
- PAPER, Guillotines**
This guillotine complies with the Act [Formatic Power guillotine] Reproduction, 2 (Jun 65) p.3. il.
- PAPER, Guillotines, Manufactures**
Polar-Werke Adolf Mohr. Packaging, 36 (Jun 65) p.84-5. il.
- PAPER, Industrial clothing.** See **CLOTHING, Industrial, Paper**
- PAPER, Industry**
On the future of paper. R. Rausing. Packaging, 36 (Apr 65) p.81+
- PAPER, Industry, Great Britain**
Plan for paper. Packaging Rev., 85 (Oct 65) p.30-3. il.
- PAPER, Industry, Italy**
Italy's paper output rises by six per cent. B. Cati. World's Paper Trade Rev., 162 (24 Dec 64) p.2030+
- PAPER, Inspection, Sampling**
Inspection of sheet paper by statistical sampling. A. W. Sidebottom & D. R. Hills. Paper Technology, 6 (Jun 65) p.195-202. il.
- PAPER, Kraft, Lining, Corrugated paper board.** See **BOARD, Paper, Corrugated, Lining, Kraft paper**
- PAPER, Kraft, Packaging materials, Food.** See **FOOD, Packaging, Paper, Kraft**
- PAPER, Labels.** See **LABELS, Paper**
- PAPER, Loading, Ports**
SCA plan new transport system. World's Paper Trade Rev., 164 (21 Oct 65) p.1242+. il.
- PAPER, No carbon required, Cutting, Machines**
New ripper-winder at Thomas Owen's Treforest factory [Easton & Johnson Ltd.] Paper Maker, 150 (Nov 65) p.62+. il.
New ripper-winder has top speed of 4,850 f.p.m. [Thomas Owen & Co. Ltd.] World's Paper Trade Rev., 164 (18 Nov 65) p.1568+. il.

PAPER, No carbon required, Reels, Winders

New ripper-winder at Thomas Owen's Treforest factory [Easton & Johnson Ltd.] Paper Maker, 150 (Nov 65) p.62+. il.

New ripper-winder has top speed of 4,850 f.p.m. [Thomas Owen & Co. Ltd.] World's Paper Trade Rev., 164 (18 Nov 65) p.1568+. il.

PAPER, Offset lithography. See LITHOGRAPHY, Offset, Paper

PAPER, Oil impregnated, Electric cables. See CABLES, Electric, Paper, Oil impregnated

PAPER, Oil impregnated, Insulation

Constitution and properties of paper for high-voltage dielectrics. E. Kelk & I. O. Wilson. Proc. of Instn. of Electrical Engrs., 112 (Mar 65) p.602-12. il. refs.

PAPER, Oil impregnated, Insulation, Electric cables. See CABLES, Electric, Insulation, Paper, Oil impregnated

PAPER, Oil impregnated, Insulation, Transformers. See TRANSFORMERS, Insulation, Paper, Oil impregnated

PAPER, Packaging materials. See PACKAGING, Papers

PAPER, Packaging materials, Food. See FOOD, Packaging, Papers

PAPER, Printing. See PRINTING, Paper

PAPER, Products, Packaging

Automatic hygienic packaging of paper products. Packaging, 36 (Mar 65) p.37-40. il.

PAPER, Rupture, Tensile, Measurement, Beta radiography

Measurement and automatic print-out of small scale basis weight variations. P. A. Tydeman. What We Are Doing (Jun 65) p.8-19. il.

PAPER, Sacks. See SACKS, Paper

PAPER, Sacks, Packaging, Cement. See CEMENT, Packaging, Sacks, Paper

PAPER, Sacks, Packaging, Glass bottles. See BOTTLES, Glass, Packaging, Sacks, Paper

PAPER, Sacks, Refuse disposal. See REFUSE, Disposal, Sacks, Paper

PAPER, Sheet-fed offset lithography. See LITHOGRAPHY, Sheet-fed offset, Paper

PAPER, Sizes, Standards

International standard paper sizes. Building Technology & Management, 3 (Oct 65) p.20. il.

PAPER, Solvent extraction, Sodium nitroprusside determination. See SODIUM NITROPRUSSIDE, Determination, Solvent extraction, Paper

PAPER, Sorting

Modern paper sorting (abridged) N. Hult. Paper Maker, 149 (Apr 65) p.86-9. il.

PAPER, Sorting, Machines

New sorter-cutter in operation at Stoneywood [Wiggins Teape's Stoneywood Mill] World's Paper Trade Rev., 164 p.1556+. il.

PAPER, Testing, Standardisation

Standardisation of test methods. What We Are Doing (Mar 65) p.35-6

PAPER, Thickness, Measurement, Instruments

Evaluation of the Arkas Thickness Recorder (profile tester) F. D. Munday. What We Are Doing (Jun 65) p.25-36. il.

PAPER, Tissue (Cleansing) Production, Electric motors, D.C., Rectifiers, Silicon controlled

High-speed tissue production at Northfleet: thyristor supplied electronically controlled machine commissioned [Associated Electrical Industries at the Bowater Scott Corporation's Northfleet Mills in Kent] Electrical Rev., 177 (12 Nov 65) p.715-18. il.

Thyristors control tissue machine [Bowater-Scott Paper Corporation's mill at Northfleet] Electrical Times, 148 (11 Nov 65) p.723-5. il.

PAPER, Tissue, Production

Properties of paper & board for subsequent converting and use, pt.1. H. Scruton. Paper Technology, 6 (Aug 65) p.269+. il.

PAPER, Tissue, Production, Machines

Peter Dixon spend £2m. on expansion at Oughtibridge [Spring Grove Mills] World's Paper Trade Rev., 164 (22 Jul 65) p.245+. il.

Peter Dixon's new tissue machine at Oughtibridge. Paper Maker, 150. (Jul 65) p.92-4. il.

Tissue mill at Oughtibridge, near Sheffield [Peter Dixon and Son Ltd.: Walmsley] Engineer, 220 (16 Jul 65) p.91-2. il.

PAPER, Tracing

Tracing papers—misnamed but correctly applied? W. T. Pryer. Reproduction, 2 (Jun 65) p.12-14. il.

PAPER, Transporting

Mill paper and board transport. Paper Maker, 150 (Jul 65) p.80+. il.

PAPER, Trim

"Trim" problem and sales forecasting. What We Are Doing (Mar 65) p.27-9. refs.

PAPER, Waste

Why it pays printers to watch their waste line [B.S.3440] Brit. Printer, 78 (Mar 65) p.112-17. il.

PAPER, Waste, Paper board manufacture. See BOARD, Paper, Manufactures, Waste paper

PAPER, Waste, Recovery

BWPUC plans new phase. World's Paper Trade Rev., 164 (2 Sep 65) p.689-90

Guide to waste paper utilisation. W. A. Banks. World's Paper Trade Rev., 163 (24 Jun 65) p.1904+. il.

Inside story on waste paper. Public Cleansing, 55 (Dec 65) p.689-90

PAPER, Web-offset lithography. See LITHOGRAPHY, Web-offset, Paper

PAPER CHROMATOGRAPHY, Dispersions, P.V.A. See P.V.A., Dispersions, Chromatography, Paper

PAPER CHROMATOGRAPHY, Organophosphorus insecticide residues determination, Food. See FOOD, Determination of organophosphorus insecticide residues, Chromatography, Paper

PAPER CHROMATOGRAPHY, Thiophosphate insecticides. See THIOPHOSPHATES, Insecticides, Chromatography, Paper

PAPER-PALLADIUM, Laminates, Vacuum packaging, Powders, Milk. See MILK, Powders, Packaging, Vacuum, Laminates, Paper-Palladium

PAPER PARTITION CHROMATOGRAPHY, Organic chemicals. See ORGANIC CHEMICALS, Chromatography, Partition, Paper

PAPERBACK BOOKS. See BOOKS, Paperback

PAPERMAKING

Chemistry in the paper industry. K. G. A. Pankhurst.

Chemistry in Britain, 1 (Dec 65) p.563-8. il.

Fletcher's new Kearsley paper mill. Paper & Print, 38 (Autumn 65) p.193+

Macromolecule chemistry in industry (abstracts) Sir Harry Melville. Chemistry in Britain, 1 (Sep 65) p.404-9. refs.

Minister of labour inaugurates Robert Fletcher's new mill. World's Paper Trade Rev., 164 (14 Oct 65) p.1159+. il.

New developments in papermaking. I. F. Hendry. Chemistry & Industry (18 Sep 65) p.1614-17

New Robert Fletcher mill at Kearsley. Paper Maker, 150 (Oct 65) p.85+. il.

New Robert Fletcher mill at Kearsley. Paper Maker, 150 (Nov 65) p.58+

Paper works, Mantova. Architect & Building News, 228 (15 Sep 65) p.499-500. il.

Peter Dixon expansion at Oughtibridge. Paper & Print, 38 (Autumn 65) p.189+. il.

Production up 33 per cent. since start-up of new no.6 at 'KNP'. Paper Maker, 148 (Dec 64) p.68-72. il.

Small miracle in the Highlands [Wiggins Teape plant] Times Rev. of Industry & Technology, 3 (Apr 65) p.62-3. il.

PAPERMAKING—cont.

Star Paper Mills modernise process and finishing operations at Blackburn. *World's Paper Trade Rev.*, 163 (29 Apr 65) p.1250+. il.

Wiggins Teape & Alex Pirie Ltd., Ely Paper Works—Cardiff. *Chemistry & Industry* (26 Jun 65) p.1164-6. il.

PAPERMAKING—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

History

1962-63

Particular localities

India

Morocco

Education**Research**

Laboratories

Problems

Effluents

Broke

Chemistry

Moisture content

Equipment

Machines

Couplings

Felt

Presses

Electrical equipment

Power plant

Control systems

Technical activities

Production, Management

Critical path analysis

Quality control

Stock preparation

Stock proportioning

Beating

Colouring

Drying

Calendering

Calenders

Heating

Ventilation

Softening

Stabilisation

Mechanical handling

Materials

Raw materials

Additives

Fillers

Casein

Acrylic fibres

PAPERMAKING, Acrylic fibres

Acrylic fibres in paper making. R. M. Harvey. *World's Paper Trade Rev.*, 163 (18 Mar 65) p.796+. il.

PAPERMAKING, Additives

Development of strength properties in paper with wet end additives (summary) H. W. Moeller. *Paper Technology*, 6 (Aug 65) p.279+. refs.

PAPERMAKING, Additives, Distribution, Studies, Micro-radiography

Microradiographic identification of paper additives. *Chemical Processing*, 11 (Mar 65) p.46-9. il.

Microradiography improves paper quality. *Engineering*, 199 (8 Jan 65) p.53. il.

PAPERMAKING, Beating

Effect of "beating" on fibre structures. R. R. A. Higham. *World's Paper Trade Rev.*, 164 (2 Sep 65) p.698+. il. refs.

PAPERMAKING, Broke

Around the mills, pt.2: broke. L. C. Wells. *What We Are Doing* (Dec 64) p.8-12. il.

Around the mills, pt.3: more about broke. L. C. Wells.

What We Are Doing (Mar 65) p.9-11

Estimate of broke loss in the British paper and board industry (abridged) L.C. Wells. *What We Are Doing* (Oct 65) p.20-5

PAPERMAKING, Calendering

Operation of the Fourdrinier paper machine, pt.4: the drying section and calenders (contd.) *Paper Maker*, 149 (Jan 65) p.34+. il.

Operation of the Fourdrinier paper machine, pt.4: drying section and calenders. *Paper Maker*, 150 (Jul 65) p.52+. refs.

Operation of the Fourdrinier paper machine, pt.4: drying section and calenders. *Paper Maker*, 150 (Aug 65) p.34+

Operation of the Fourdrinier paper machine, pt.4: drying section and calenders. *Paper Maker*, 150 (Sep 65) p.66+

Operation of the Fourdrinier paper machine, pt.4: drying section and calenders (contd.) *Paper Maker*, 150 (Oct 65) p.76+. refs.

Operation of the Fourdrinier paper machine, pt.4: drying section and calenders (contd.) *Paper Maker*, 150 (Nov 65) p.48+. refs.

PAPERMAKING, Calenders

Special calenders for finishing paper and board [Joh. Kleinewefers Sohne Maschinenfabrik, Krefeld, W. Germany] *Paper Maker*, 148 (Dec 64) p.77-8. il.

PAPERMAKING, Calenders, Crown, Control

Uniform nip pressures on the machine calender. R. H. Digney. *Paper Technology*, 6 (Apr 65) p.121-5. refs.

PAPERMAKING, Casein

Casein adhesive strength—its effect on art paper and how to measure it. R. Bain. *Paper Maker*, 148 (Dec 64) p.58+. il.

PAPERMAKING, Colouring

Considerations on the handling and use of continuous chemical additions. A. J. Hinton. *Paper Technology*, 5 (Dec 64) p.561-6. il. refs.

Mill experience in the continuous addition of dyestuffs. D. A. Reid. *Paper Technology*, 5 (Dec 64) p.573-8. il. ref.

PAPERMAKING, Colouring, Flowmeters, Magnetic

Use of magnetic flow meters for continuous chemical addition. H. A. Wall. *Paper Technology*, 5 (Dec 64) p.567-72. il. refs.

PAPERMAKING, Control systems

Improvements in paper machine control. L. E. Taylor. *Brit. Chemical Engng.*, 10 (Oct 65) p.707+. il.

PAPERMAKING, Control systems, Computers

Applying a computer system to on-line control. J. M. Denvir. *Paper Technology*, 6 (Aug 65) p.299-301

Automated paper—another Elliott first [Arch 1000 on line computer system at Wolvercote Paper Mill] *Engineering*, 199 (2 Apr 65) p.440. il.

PAPERMAKING, 1962-63, Literature Surveys

Auszüge aus 1962 und 1963 von der Technischen Abteilung der Vereinigung Britischer Papier- und Kartonhersteller veröffentlichten Original-Arbeiten. *Paper Maker* (International no.1965) p.82+. refs.

Notes sur travail original publié par la section technique du "British Paper and Board Makers' Association" au cours des années 1962 et 1963. *Paper Maker* (International no. 1965) p.88+. refs.

PAPERMAKING, Control systems, Computers—cont.

- Computer control at Wolvercote. *Paper & Print*, 38 (Autumn 65) p.178+. il.
- Computer control at Wolvercote Paper Mill. A. W. Sidebottom & K. D. Oughton. *Paper Technology*, 6 (Aug 65) p.334-8. il.
- Computer control of paper-making: ARCH on-line computer control system at Wolvercote Paper Mill, Oxford. *Process Control & Automation*, 12 (May 65) p.213-15. il.
- Computer control project at Wolvercote paper mill. *Paper Maker*, 149 (Apr 65) p.85+. il.
- Computer controls paper machine: N.R.D.C. supported project at Wolvercote. *Electrical Times*, 148 (15 Jul 65) p.89. il.
- Digital computer controls paper machine [Elliott ARCH 1000 computer at Wolvercote Paper Mill] K. D. Oughton. *Industrial Electronics*, 3 (Aug 65) p.358-62. il. ref.
- Digital computer technique applied to papermachines. S. Schroder & G. Gavelin. *Paper Technology*, 6 (Aug 65) p.338-46. il.
- Human problems involved in computer control (summary) [Wolvercote Paper Mill] J. R. Henderson. *World's Paper Trade Rev.*, 164 (19 Aug 65) p.544+
- Introducing a computer. N. C. Underwood. *Paper Technology*, 6 (Aug 65) p.292-3. il.
- Method of applying supervisory control in a process industry: closed loop computer control of a Fourdrinier paper machine [Wolvercote Paper Mill] D. A. Mackintosh. *Instrument Practice*, 19 (Jul 65) p.628-32. il.
- On-line closed loop digital computer control of papermachines. G. H. Laycock. *Paper Technology*, 6 (Aug 65) p.305-8. il.
- Papermaking joins the ranks of computer-controlled processes [Wolvercote Paper Mill] *Control*, 9 (May 65) p.272-3. il.
- Systems engineering leads to computer control. B. W. Balls. *Paper Technology*, 6 (Aug 65) p.330-3
- Systems engineering leads the way to computer control of papermachines. J. Mardon, R. E. Monahan, W. H. Mehaffey & W. T. Lee. *Paper Technology*, 6 (Aug 65) p.328-9
- Wolvercote computer installation a 'major break-through' [Arch 1000] *World's Paper Trade Rev.*, 163 (8 Apr 65) p.1030+. il.

PAPERMAKING, Control systems, Logical elements

- Logic block diagrams applied to paper industry process control. L. D. Edenborough. *Paper Technology*, 6 (Aug 65) p.288-92. il.

PAPERMAKING, Control systems, Pneumatic

- Pneumatic control system in new paper mill. *Chemical Processing*, 11 (Oct 65) p.63-5. il.

PAPERMAKING, Couplings, Fluid

- Why hydraulic couplings help pulp & paper makers. *Paper Technology*, 6 (Feb 65) p.16+. il.

PAPERMAKING, Critical path analysis

- L'organisation dans le laboratoire du moulin du "Critical Path" ("La chemin critique") *Paper Maker (International no.1965)* p.108+. il.
- Planung im Werkslaboratorium auf Grund der Methode des kritischen Pfades. *Paper Maker (International no.1965)* p.105-7

PAPERMAKING, Drying

- How drying can affect paper quality. il. C. Kenworthy. *Paper Maker*, 150 (Oct 65) p.58+. il. refs.
- How drying takes place. L. A. Kirk. *Paper Maker*, 150 (Oct 65) p.50+. il.
- Operation of the Fourdrinier paper machine, pt.4: drying section and calendars (contd.) *Paper Maker*, 150 (Nov 65) p.48+. refs.
- Operation of the Fourdrinier paper machine, pt.4: drying section calendars (contd.) *Paper Maker*, 148 (Dec 64) p.50+. il. refs.

PAPERMAKING, Drying—cont.

- Operation of the Fourdrinier paper machine, pt.4: the drying section and calendars (contd.) *Paper Maker*, 149 (Jan 65) p.34+. il.
- Operation of the Fourdrinier paper machine, pt.4: drying section and calendars (contd.) *Paper Maker*, 149 (Feb 65) p.50+. il. refs.
- Operation of the Fourdrinier paper machine, pt.4: drying section and calendars (contd.) *Paper Maker*, 149 (Mar 65) p.49+. il.
- Operation of the Fourdrinier paper machine, pt.4: drying section and calendars (contd.) *Paper Maker*, 149 (Apr 65) p.54+. il. refs.
- Operation of the Fourdrinier paper machine, pt.4: drying section and calendars (contd.) *Paper Maker*, 149 (May 65) p.50+. il. refs.
- Operation of the Fourdrinier paper machine, pt.4: drying section and calendars (contd.) *Paper Maker*, 149 (Jun 65) p.50+. il.
- Operation of the Fourdrinier paper machine, pt.4: drying section and calendars. *Paper Maker*, 150 (Jul 65) p.52+. refs.
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- Operation of the Fourdrinier paper machine, pt.4: drying section and calendars (contd.) *Paper Maker*, 150 (Oct 65) p.76+. refs.

PAPERMAKING, Drying, Cylinders, Heating

- Efficient operation of cylinder heating systems. R. P. Nuki. *Paper Maker*, 150 (Oct 65) p.65+. il.

PAPERMAKING, Drying, Cylinders, Repair, Electroplating, Chromium

- Chromium plated rolls for the paper, board and converting industries [Poeton Industrial Plating Co. Ltd.] *World's Paper Trade Rev.*, 163 (17 Jun 65) p.1860+. il.

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DITHIOCARBAMATES
FUNGICIDES
INSECTICIDES
ORGANOTINS, Pesticides

PESTICIDES, Antibiotics

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PESTS, Textiles. See **TEXTILES, Pests**

PESTS, Warehouses, Food storage. See **FOOD, Storage, Warehouses, Pests**

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TOWN PLANNING, Peterlee

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Linings, Steel, Stainless, Weld deposited

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TETRAETHYL LEAD

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PETROL, Engines

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ENGINES, Motor cycles

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PETROL, Engines, Ignition

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SPARKING PLUGS

PETROL, Engines, Testing, Models, Teaching aids

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PETROLEUM

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DIESEL ENGINES, Fuels

FUEL OIL

MAZOUT

NAPHTHA

OIL SAND

PETROCHEMICALS

PETROL

SHALE OIL

PETROLEUM-SUBHEADINGS-Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Special localities

Nigeria

Education

Research

Properties

Viscosity

Deposits

Resources

Production

Equipment

Prospecting

Drilling

Refining

Refineries

Handling

Storage

Transport

Pipelines

PETROLEUM—SUBHEADINGS—Synopsis—cont.

Products
Coke
Fuels

PETROLEUM, Coke, Production

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PETROLEUM, Crude, Diesel engines, Ships. See SHIPS, Diesel engines, Crude oil

PETROLEUM, Drilling, Diamond

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PETROLEUM, Drilling, Hydraulic fracture

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Mud flush control in oil drilling operations. *Oil & Petrochemical Equipment News*, 11 (Autumn 65) p.59-61. il.

PETROLEUM, Drilling, Off shore

In deep water. *Petroleum Times*, 69 (2 Apr 65) p.179+. il.

PETROLEUM, Drilling, Off shore, Communications, Teleprinting, Time division, Multiplex

Communications for the North Sea oil-exploration project. E. G. Bronsdon. *P.O. Electrical Engrs. J.*, 58 (Oct 65) p.160-3. il.

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Offshore fields of Qatar. J. R. Dominguez. *Inst. of Petroleum Rev.*, 19 (Jun 65) p.198-210. il. refs.

PETROLEUM, Drilling, Off shore, New South Wales

First Australian offshore drilling rig prepares for operations. *Inst. of Petroleum Rev.*, 19 (Mar 65) p.96. il.

PETROLEUM, Drilling, Off shore, North Sea

Second phase in North Sea activities. *Oil & Petrochemical Equipment News*, 11 (Winter 64/65) p.53-7. il.

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"Constellation" being fitted out for Arpet Group. *Petroleum Times*, 69 (10 Dec 65) p.671-2. il.

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Islands of steel rise over North Sea gas, pt.1. J. A. Hind. *Gas J.*, 324 (27 Oct 65) p.89+. il.

Large drilling rig commissioned at Clydebank [North Star] Shipbuilding & Shipping Record, 106 (8 Jul 65) p.54+. il.

"Neptune 1" nears location. *Petroleum Times*, 69 (11 Jun 65) p.321-2. il.

"North Star" commissioned at Glasgow. *Petroleum Times*, 69 (23 Jul 65) p.401-3. il.

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Supplying the North sea drillers. *Esso Magazine*, 14 (Summer 65) p.10-13. il.

Tees-side builds floating North Sea rig. *Engineering*, 200 (13 Aug 65) p.204-5. il.

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PHOTOELASTICITY, Stresses, Boundary, Evaluation, Extrapolation

Extrapolation methods for evaluating boundary stresses. I. M. Allison. Brit. J. of Applied Physics, 16 (Jan 65) p.93+. il. refs.

PHOTOELASTICITY, Three dimensional, Stresses, Separation, Block integration

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Electronics for biologists, pt.8. G. C. Ware. Laboratory Practice, 14 (Sep 65) p.1052-6. il.

PHOTOELECTRIC CELLS

Related Headings:

PHOTOCONDUCTIVE CELLS
 PHOTOEMISSIVE CELLS
 PHOTOVOLTAIC CELLS

PHOTOELECTRIC CELLS, Control systems

Light sensitive controls. P. Brennan. Machinery Lloyd (European ed.), 37 (Apr 65) p.32-5. il.

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PHOTOELECTRIC CELLS, Controls, Lamps, Street lighting. See STREETS, Lighting, Lamps, Controls, Photoelectric cells

PHOTOELECTRIC CONTROL SYSTEMS, Arc welding. See WELDING, Arc, Control systems, Photoelectric

PHOTOELECTRIC CONTROL SYSTEMS, Conveyors, Toy manufactures. See TOYS, Manufactures, Conveyors, Control systems, Photoelectric

PHOTOELECTRIC CONTROL SYSTEMS, Flame cutting, Shipbuilding. See SHIPBUILDING, Flame cutting, Control systems, Photoelectric

PHOTOELECTRIC DETECTORS, Breaks, Slivers. See SLIVERS, Breaks, Detectors, Photoelectric

PHOTOELECTRIC DETECTORS, Faults, Yarns. See YARNS, Faults, Detectors, Photoelectric

PHOTOELECTRIC DETECTORS, Silicon, Natural lighting. See LIGHTING, Natural, Photoelectric detectors, Silicon

PHOTOELECTRIC DETECTORS, Time-resolving spectra, Grazing incidence, Spectrometers, Plasmas. See PLASMAS, Spectrometers, Grazing incidence, Time-resolving spectra, Detectors, Photoelectric

PHOTOELECTRIC EQUIPMENT, Inspection, Ball bearings. See BEARINGS, Ball, Inspection, Equipment, Photoelectric

PHOTOELECTRIC EQUIPMENT, Inspection, Beaming, Warping, Yarns. See YARNS, Warping, Beaming, Inspection, Equipment, Photoelectric

PHOTOELECTRIC FLAME FAILURE PROTECTION, Equipment, Burners. See BURNERS, Flame failure protection equipment, Photoelectric

PHOTOELECTRIC GRADIENT CONTROL, Plastic pipes, Drainage, Land. See LAND, Drainage, Pipes, Plastics, Gradients, Control, Photoelectric

PHOTOELECTRIC MEASUREMENT, Diameters, Metal rods. See RODS, Metal, Diameters, Measurement, Photoelectric

PHOTOELECTRIC MICROSCOPES. See MICROSCOPES, Photoelectric

PHOTOELECTRIC PYROMETERS. See PYROMETERS, Photoelectric

PHOTOELECTRIC PYROMETRY. See PYROMETRY, Photo-
PHOTOELECTRIC RECORDING, Movement, Wagons, Railways. See RAILWAYS, Wagons, Movement recording, Photoelectric

PHOTOELECTRIC SCANNING, Colour separations, Half-tone illustrations. See ILLUSTRATIONS, Half-tone, Colour separations, Scanning, Photoelectric

PHOTOELECTRIC SCANNING, Luminance, Natural lighting. See LIGHTING, Natural, Luminance, Photoelectric scanners

PHOTOELECTRIC SEMICONDUCTORS

Photon-coupled devices [Type-hpa-4302] Application Group of Hewlett-Packard Ltd. Electronic Components, 6 (May 65) p.407-16. il.

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PHOTOELECTRIC SORTING, Colour, Separation, Mineral dressing. See MINERAL DRESSING, Separation, Colour sorting, Photoelectric

PHOTOELECTRIC VISCOMETERS. See VISCOMETERS, Photoelectric

PHOTOELECTRICITY

Related Headings:

SCANNING

PHOTOEMISSION, Current, Detectors, Phase sensitive

Improved technique for photoelectric measurements. M. D. Matthews, E. A. Faulkner & G. W. Green. Electronic Engng., 37 (Jul 65) p.472-4. il. refs.

PHOTOEMISSION, Current, Tantalum oxide films, Mercury vapour lamp irradiation. See FILMS, Tantalum oxide (Irradiated, Mercury vapour lamps) Photoelectric current

PHOTOEMISSION, Nickel core barium oxide cathodes. See CATHODES, Barium oxide, Nickel core, Photoemission

PHOTOEMISSIVE CELLS, Cathodes, Caesium antimonide, Effect of oxygen chemisorption

Enhancement of photoemission from caesium antimonide by oxygen. R. N. Bloomer & B. M. Cox. Brit. J. of Applied Physics, 16 (May 65) p.605-11. il. refs.

PHOTOEMISSIVE CELLS (Exposure meters) Amplifiers

Sensitive exposure meter using a vacuum photocell. R. H. S. Riordan. J. of Scientific Instruments, 42 (Mar 65) p.168-9. il.

PHOTOENGRAVING

Related Headings:

PROCESS CAMERAS

PHOTOENGRAVING, Colour

Engravers face the demand for colour. P. Williams. Brit. Printer, 78 (Aug 65) p.90-3. il.

PHOTOENGRAVING, Line

Line work. F. G. Wallis. Print in Britain, 13 (Jul 65) p.37-8. il.

PHOTOENGRAVING, Microminiature electronic circuits. See CIRCUITS, Electronics, Microminiature, Photoengraving

PHOTOENGRAVING, Norway

Photo-engraving in Norway. R. V. Cannon. Print in Britain, 12 (Dec 64) p.34-6. il.

PHOTOGRAMMETRY

Stereoscopic engineering. K. W. Hards. New Scientist, 28 (18 Nov 65) p.507-8. il.

PHOTOGRAMMETRY, Cameras

Williamson F49 Mark 4 air survey camera. J. E. Odle. Photogrammetric Record, 5 (Apr 65) p.37-49. il. refs.

PHOTOGRAMMETRY, Die design, Pressworking, Bodies, Motor cars. See MOTOR CARS, Bodies, Press-working, Dies, Design, Photogrammetry

PHOTOGRAMMETRY, Mathematics

Editorial. Photogrammetric Record, 5 (Oct 65) p.69-71. il.

PHOTOGRAMMETRY, Scaling-up, Chemical engineering plant. See CHEMICAL ENGINEERING, Plant, Scaling-up, Photogrammetry

PHOTOGRAPHY

Future of photography. A. Page. *New Scientist*, 26 (8 Apr 65) p.113+. il.

Seeing through photography. R. R. Coupe. *Litho Printer*, 8 (Aug 65) p.42-3. il.

PHOTOGRAPHY

Related Headings:

CAMERAS

CINEMATOGRAPHY

ELECTROPHOTOGRAPHY

EXPOSURE METERS

FILM, Photographic

MACROPHOTOGRAPHY

MICROPHOTOGRAPHY

PHOTOMICROGRAPHY

PROCESS PHOTOGRAPHY

PROJECTORS

PHOTOGRAPHY—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

History

Particular localities

*China**Education**Equipment**Batteries**Processing**Development**Developers**Printing**Prints**Papers**Fixing**Fixers**Double exposure**Superimposition*

Photographic materials

*Information theory**Modulation transfer function**Photosensitive surfaces**Emulsions**Heat sensitised materials*

Photographic specialties

*Colour**Flashlight**High speed**Scientific**Industrial**Air*

PHOTOGRAPHY, Aerial prospecting, Petroleum. See **PETROLEUM, Prospecting, Aerial, Photography**

PHOTOGRAPHY, Air, Emulsions, Equivalent quantum efficiency

Equivalent quantum efficiency of aerial films. R. Shaw. *J. of Photographic Science*, 13 (Nov/Dec 65) p.308-17. il. refs.

PHOTOGRAPHY, Air, Equipment

Aerial survey at Fairey Surveys Ltd. M. A. F. Lake. *Brit. J. of Photography*, 112 (7 May 65) p.388-90. il.

PHOTOGRAPHY, Air, Laying, Pipelines, Petroleum. See **PETROLEUM, Pipelines, Laying, Photography, Air**

PHOTOGRAPHY, Air, Processing, Machines

Automation in aerial film processing. R. C. A. Dando. *World Aerospace Systems*, 1 (Apr 65) p.173-4. il.

PHOTOGRAPHY, Architecture. See **ARCHITECTURE, Photography**

PHOTOGRAPHY, Batteries

Batteries for film equipment. A. E. Nicholas. *Brit. Kinematography*, 47 (Aug 65) p.39-41. il.

PHOTOGRAPHY, Buildings. See **BUILDINGS, Photography**

PHOTOGRAPHY, Coded measuring instruments, Scales. See **SCALES, Measuring instruments, Coded, Photography**

PHOTOGRAPHY, China

Photography in China. J. Allan Cash. *J. of Photographic Science*, 105 (May 65) p.154-9. il.

PHOTOGRAPHY, Colour

Colour reproduction as a function of tone scale in negative-positive and reversal systems. J. Smits & H. Carluys. *J. of Photographic Science*, 13 (Jul/Aug 65) p.185-93. il. refs.

Negative-positive versus reversal systems. P. Kowaliski & P. Mouchel. *J. of Photographic Science*, 13 (May/Jun 65) p.125-32. il. refs.

Recent developments in colour photography. R. W. G. Hunt. *J. of R. Soc. of Arts*, 113 (Jun 65) p.476-87. il.

PHOTOGRAPHY, Colour, Development, Coupling reactions, Kinetics

Relation of kinetics of coupling of developer soluble colour couplers to structure and photographic activity. B. P. Brand. *J. of Photographic Science*, 13 (Sep/Oct 65) p.248-60. il. refs.

PHOTOGRAPHY, Colour, Film

Ferranicolor Dia 28: interesting new colour material.

E. Ch. Gehret. *Brit. J. of Photography*, 112 (25 Jun 65) p.558+

Historical list of the world's chromogenic processed colour films. G. Koshof & K. Hubner. *Brit. J. of Photography*, 112 (10 Sep 65) p.780-6. il.

PHOTOGRAPHY, Colour, Film (Reversal)

Optimum gradation and optimum exposure for colour reversal films. W. Behrendt. *Brit. J. of Photography*, 112 (8 Oct 65) p.849+. il. refs.

PHOTOGRAPHY, Colour, Film, Tolerances

Tolerances and probability of the optimum in colour photography [Agfacolor CT 18] W. Behrendt. *J. of Photographic Science*, 13 (May/Jun 65) p.117-24. il. refs.

PHOTOGRAPHY, Colour, Printing

Cilchrome print process. J. H. Coote. *Photographic J.*, 105 (Mar 65) p.83-4. il.

PHOTOGRAPHY, Colour, Printing, Silver-dye bleach process

Some features of the silver-dye bleach process. A. Meyer. *J. of Photographic Science*, 13 (Mar/Apr 65) p.90-7. il.

PHOTOGRAPHY, Colour, Prints, Luminance

Luminance levels in colour transparencies and reflexion prints. R. W. G. Hunt. *J. of Photographic Science*, 13 (Mar/Apr 65) p.108-14. il. refs.

PHOTOGRAPHY, Colour, Processing

Gevacolor M8 paper and its processing. E. Ch. Gehret. *Brit. J. of Photography*, 112 (7 May 65) p.396+

PHOTOGRAPHY, Colour, Transparencies, Copying

Bowen Illumitran. G. Crawley. *Brit. J. of Photography*, 112 (26 Mar 65) p.260-3. il.

PHOTOGRAPHY, Colour, Transparencies, Luminance

Luminance levels in colour transparencies and reflexion prints. R. W. G. Hunt. *J. of Photographic Science*, 13 (Mar/Apr 65) p.108-14. il. refs.

PHOTOGRAPHY, Combustion, Solid propellants. See **PROPELLANTS, Solid, Combustion, Photography**

PHOTOGRAPHY, Developers

Some recent advances in black and white developing agents. G. E. Ficken, L. F. A. Mason & D. W. Ramsay. *J. of Photographic Science*, 13 (Nov/Dec 65) p.294-300. il. refs.

PHOTOGRAPHY, Developers

Related Headings:

PHENIDONE

PHOTOGRAPHY, Developers, Determination of hydroquinone, TitrationsVisual titrimetric determination of Phenidone and hydroquinone in photographic developers. K. R. Reitz & C. D. Anselm. *Brit. Kinematography*, 47 (Oct 65) p.102-4. il.**PHOTOGRAPHY, Developers, Determination of Phenidone, Titrations**Visual titrimetric determination of Phenidone and hydroquinone in photographic developers. K. R. Reitz & C. D. Anselm. *Brit. Kinematography*, 47 (Oct 65) p.102-4. il.**PHOTOGRAPHY, Developers, Hydroquinone, Determination of Phenidone, Colorimetry, Reagents, 3-Methyl-2-benzothiazolone hydrazone hydrochloride**Colorimetric estimation of Phenidone in Phenidone/hydroquinone and colour developer solutions, using 3-methyl-2-benzothiazolone hydrazone hydrochloride. J. M. Nicholas & L. K. Bowler. *J. of Photographic Science*, 13 (May/Jun 65) p.140-3. il. refs.**PHOTOGRAPHY, Developers, Hydroquinone, Inhibitors, Polyoxyethylene-Vinyl acetate**Active polyethylene oxides: mechanism of development. H. W. Wood. *J. of Photographic Science*, 13 (Jan/Feb 65) p.39-45. il. refs.**PHOTOGRAPHY, Developers, Hydroquinone, Inhibitors, Polyoxyethylene-Vinyl acetate, Studies, Cells, Voltaic**Model experiments with polyethylene oxides. H. W. Wood. *J. of Photographic Science*, 13 (Jul/Aug 65) p.177-84. il. refs.**PHOTOGRAPHY, Developers, Methyl-*para*-aminophenol sulphate, Determination, Colorimetry**Simple spectrophotometric (or colorimetric) method of estimation of metal in developer solutions. P. H. Gore & P. J. Newman. *J. of Photographic Science*, 13 (Mar/Apr 65) p.82-3. il. refs.**PHOTOGRAPHY, Development, Gelatin, Adsorption, Silver**Adsorption of gelatin to a silver powder. A. J. Groszek & G. W. Wood. *J. of Photographic Science*, 13 (May/Jun 65) p.133-9. il. refs.**PHOTOGRAPHY, Development, Monobaths, Thiazolidine-4-carboxylic acid**Very rapid monobath processing. L. Corben, A. Shepp & C. Bloom. *J. of Photographic Science*, 13 (Sep/Oct 65) p.233-9. il. refs.**PHOTOGRAPHY, Development, Rate, Measurement**Method of measuring high rates of development. M. Lloyd. *J. of Photographic Science*, 13 (Nov/Dec 65) p.277-9. il.**PHOTOGRAPHY, Development, Silver grains, Surface-Volume ratio**Blackness of developed silver. G. W. W. Stevens. *J. of Photographic Science*, 13 (Sep/Oct 65) p.228-32. il. refs.**PHOTOGRAPHY, Diffraction patterns. See DIFFRACTION, Patterns, Photography****PHOTOGRAPHY, Double exposure, Terminology**Exposure addition effects and their terminology. W. F. Berg & F. Tamamichel. *J. of Photographic Science*, 13 (Jan/Feb 65) p.38**PHOTOGRAPHY, Education**Photography in the university, pt.2. C. J. Duncan. *Photographic J.*, 105 p.1+**PHOTOGRAPHY, Emulsions, Desensitising**Desensitization by spectral sensitizers. H. Borginon & G. F. van Veelen. *J. of Photographic Science*, 13 (Nov/Dec 65) p.273-6. il. refs.**PHOTOGRAPHY, Emulsions, Instruments, Rockets, X-ray studies, Ionosphere. See IONOSPHERE, X-rays, Studies (Rockets) Instruments, Photographic, Emulsions****PHOTOGRAPHY, Emulsions, Monodisperse, Silver bromide**Studies on silver bromide sols, pt.1: formation and ageing of monodisperse silver bromide sols. R. H. Ottewill & R. F. Woodbridge. *J. of Photographic Science*, 13 (Mar/Apr 65) p.98-103. il. refs.**PHOTOGRAPHY, Emulsions, Monodisperse, Silver bromide, Effect of additives, Microscopy, Electron**Studies on silver bromide sols, pt.2: effect of additives on the sol particles. R. H. Ottewill & R. F. Woodbridge. *J. of Photographic Science*, 13 (Mar/Apr 65) p.104-7. il. refs.**PHOTOGRAPHY, Emulsions, Sensitising, 3,3'-Diethyl-methyl-benzothiazole trimethine cyanide bromide, Reaction with colour couplers**Influence of colour couplers on the adsorption of spectral sensitizing agents. H. Borginon & R. Berendsen. *J. of Photographic Science*, 13 (Jul/Aug 65) p.165-70. il. refs.**PHOTOGRAPHY, Emulsions, Sensitising, Dyes, Adsorption**Adsorption of sensitizing dyes at definite crystal faces. E. Gunther & E. Moisar. *J. of Photographic Science*, 13 (Nov/Dec 65) p.280-93. il. refs.**PHOTOGRAPHY, Emulsions, Sensitising, Gold**Mechanism of the elimination of high intensity reciprocity law failure by gold-sensitization. P. Faelens. *J. of Photographic Science*, 13 (Jan/Feb 65) p.54-5. il. refs.**PHOTOGRAPHY, Emulsions, Sensitising, Sodium thiosulphate, Reaction with antifoggants**Competitive adsorption of chemical sensitizers and retarders on photographic silver halide grains. R. Berendsen, P. Faelens, B. Tavernier & L. Klerkx. *J. of Photographic Science*, 13 (Jul/Aug 65) p.171-6. il. refs.**PHOTOGRAPHY, Emulsions, Sensitising, Sodium thiosulphate, Reaction with stabilisers**Competitive adsorption of chemical sensitizers and retarders on photographic silver halide grains. R. Berendsen, P. Faelens, B. Tavernier & L. Klerkx. *J. of Photographic Science*, 13 (Jul/Aug 65) p.171-6. il. refs.**PHOTOGRAPHY, Emulsions, Silver bromide, Latent image specks**Comparative study of latent image formation. E. Moisar. *J. of Photographic Science*, 13 (Jan/Feb 65) p.46-53. il. refs.Preferred sites for latent-image formation. G. C. Farnell, R. B. Flint & J. B. Chanter. *J. of Photographic Science*, 13 (Jan/Feb 65) p.25-31. il. refs.**PHOTOGRAPHY, Emulsions, Silver bromide, Sensitising, Dyes, Adsorption, Effect of crystal surfaces**Spectral sensitization of silver bromide emulsions on different crystallographic faces. W. Markocki. *J. of Photographic Science*, 13 (Mar/Apr 65) p.85-9. il. refs.**PHOTOGRAPHY, Filmsetting. See FILMSETTING, Photography****PHOTOGRAPHY, Fixers, Ammonium thiosulphate, Staining, Cotton, Industrial overalls. See OVERALLS, Industrial, Cotton, Staining, Photographic fixers, Ammonium thiosulphate****PHOTOGRAPHY, Fixers, Thiosulphate solutions, Ammonium argentothiosulphate formation**Ammonium argentothiosulphate bromide. E. R. Brumpton & H. Hirsch. *J. of Photographic Science*, 13 (Nov/Dec 65) p.301-7. il. refs.**PHOTOGRAPHY, Fixers, Thiosulphate solutions, High temperature, Sulphites, Autoxidation**Stability of concentrated thiosulphate solutions at high temperature, pt.2: loss of the sulphite. G. I. P. Levenson & M. G. Rumens. *J. of Photographic Science*, 13 (Mar/Apr 65) p.79-81. il. refs.**PHOTOGRAPHY, Flashlight, Equipment**Bowens Multilec flash. *Brit. J. of Photography*, 113 (12 Nov 65) p.970+. il.

PHOTOGRAPHY, Flashlight, Stroboscopes

Electronic flash photography. H. E. Edgerton. *Photographic J.*, 105 (Sep 65) p.237-47. il.

PHOTOGRAPHY, Heat sensitised materials, Films,**Lead iodide**

Photographic applications of lead iodide. M. R. Tubbs & A. J. Forty. *Brit. J. of Applied Physics*, 15 (Dec 64) p.1553-8. il. refs.

PHOTOGRAPHY, Helium, Plasmas. See **PLASMAS, Helium, Photography**

PHOTOGRAPHY, High speed

Related Headings:

SCHLIEREN PHOTOGRAPHY**PHOTOGRAPHY, High speed, Equipment**

High speed photographic equipment and accessories. S. W. Bowler. *Brit. J. of Photography*, 113 (15 Oct 65) p.875+. il.

PHOTOGRAPHY, History

Re-discovery and description of original material on the photographic researches of Sir John F. W. Herschel, 1839-1844. R. S. Schultze. *J. of Photographic Science*, 13 (Mar/Apr 65) p.57-68. il.

PHOTOGRAPHY, Industrial

Industry gets the films it deserves. G. Begg. *Photographic J.*, 105 (Jul 65) p.193-7. il.

Unit at work. L. Sansom. *Brit. J. of Photography*, 112 (9 Apr 65) p.310-11. il.

PHOTOGRAPHY, Industrial, Flashlight, Multiple, Equipment

Case for multiple flash in industry. B. Cocker. *Brit. J. of Photography*, 112 (19 Feb 65) p.156-8. il.

PHOTOGRAPHY, Information theory

Conference on Photographic and Spectroscopic Optics, Tokyo and Kyoto, September 1964. L. R. Baker. *J. of Scientific Instruments*, 42 (Jan 65) p.3-6. refs.

PHOTOGRAPHY, Investigation, Accidents, Railways. See

RAILWAYS, Accidents, Investigation, Photography

PHOTOGRAPHY, Magnesium oxide, Smoke, Sound field studies,

Acoustic resonators. See **RESONATORS, Acoustic, Sound fields, Studies, Smoke, Magnesium oxide, Photography**

PHOTOGRAPHY, Medical. See **MEDICAL PHOTOGRAPHY**

PHOTOGRAPHY, Modulation transfer function

Agfa work on image sharpness theory. G. Crawley. *Brit. J. of Photography*, 112 (30 Jul 65) p.664-5. refs.

Some current problems in image evaluation. G. C. Brock. *Photogrammetric Record*, 5 (Apr 65) p.27-36. il. refs.

PHOTOGRAPHY, Motor car manufactures. See **MOTOR CARS, Manufactures, Photography**

PHOTOGRAPHY, Newspapers. See **NEWSPAPERS, Photography**

PHOTOGRAPHY, Papers, Coating

Modernized Cassio photo-base coating plant. *Paper & Print*, 38 (Autumn 65) p.241+. il.

New £1/4m. coating plant opened [Cassio Photographic Paper Co. Ltd.] *World's Paper Trade Rev.*, 164 (7 Oct 65) p.1074+. il.

PHOTOGRAPHY, Papers, Coating, Sizes, Foam suppression, Ultrasonics

Ultrasonic defoaming and de-aerating plant. *Chemical Processing*, 11 (Aug 65) p.4-5. il.

PHOTOGRAPHY, Photosensitive surfaces, Vacuum deposited

More about non-gelatin film. A. A. Newman. *Brit. J. of Photography*, 112 (10 Sep 65) p.779-80. refs.

PHOTOGRAPHY, Plates, Spark source mass spectroscopy, Inorganic chemicals. See **INORGANIC CHEMICALS, Mass spectroscopy, Spark source, Plates, Photographic**

PHOTOGRAPHY, Prints, Faded, Image recovery, Autoradiography, Neutron irradiation

Early Fox Talbot photographs and restoration by neutron irradiation. E. Ostroff. *J. of Photographic Science*, 13 (Sep/Oct 65) p.213-27. il. refs.

PHOTOGRAPHY, Processing

Large scale commercial processing [D & P service] S. W. Bowler. *Brit. J. of Photography*, 113 (29 Oct 65) p.916+. il.

Rapid access methods in the United States. J. H. Jacobs. *Photographic J.*, 105 (Oct 65) p.271-92. il. refs.

PHOTOGRAPHY, Scientific

Optics or ignorance? A. M. Hughes. *Discovery*, 26 (Jun 65) p.42-6. il.

PHOTOGRAPHY, Stereoscopic, Stereomodels, Molecules, Insecticides. See **INSECTICIDES, Molecules, Stereomodels, Photography, Stereoscopic**

PHOTOGRAPHY, Superimposition, Equipment

Transflex background system. *Brit. J. of Photography*, 112 (14 May 65) p.406-9. il.

Unmasking intermask. M. J. Langford. *Brit. J. of Photography*, 112 (19 Mar 65) p.246+. il.

PHOTOGRAPHY, Surveying, Pyramids. See **PYRAMIDS, Surveying, Photography**

PHOTOGRAPHY, Thin layer chromatograms. See **CHROMATOGRAMS, Thin layer, Photography**

PHOTOGRAPHY, Traffic, Roads. See **ROADS, Traffic, Photography**

PHOTOGRAVURE

What do we know about gravure? pt.1. E. J. Pritchard. *Brit. Ink Maker*, 7 (Feb 65) p.89-92. refs.

What do we know about gravure? pt.2. E. J. Pritchard. *Brit. Ink Maker*, 7 (May 65) p.147+. il.

PHOTOGRAVURE, Inks, Transfer properties, Studies, Microscopy, Electron

Photoanalytical investigations into the photogravure printing process using microscopy. R. M. P. Conrad. *Printing Technology*, 8 (Dec 64) p.62-7. il.

PHOTOGRAVURE, Machines, Sheet fed

Case for sheet-fed 'wrap-around' gravure. *Print in Britain*, 12 (Feb 65) p.26-32. il.

PHOTOGRAVURE, Printing, Packaging materials. See **PACKAGING, Materials, Printing, Photogravure**

PHOTOGRAVURE, Process photography, Instruments

Controls in the photographic department of a large rotogravure printing house [Axel Springer of Hamburg] O. M. Lilien. *Print in Britain*, 12 (Apr 65) p.28-30. il.

PHOTOGRAVURE, Speckle

Speckle in gravure printing. *Print in Britain*, 13 (Jul 65) p.32

PHOTOISOHUMULONES, Hops. See **HOPS, Photoisohumulones**

PHOTOLITHOGRAPHY, Film, Production, Diffusion transfer

Instant negative conversion system [Printing Arts Research Laboratories, Inc. California] *Print in Britain*, 12 (Mar 65) p.20-1. il.

PHOTOLITHOGRAPHY, Films

Films for the litho process. D. M. Henthorne. *Paper & Print*, 38 (Spring 65) p.41+. il.

PHOTOLITHOGRAPHY, Plate-making

From original to plate without a darkroom [Prestolith] *Reproduction*, 2 (Aug 65) p.3-4. il.

PHOTOLITHOGRAPHY, Plate-making, Machines

Automatic plate-making [Kodak Plate master] F. G. Wallis. *Litho Printer*, 8 (Mar 65) p.31-2. il.

PHOTOLITHOGRAPHY, Plate-making, Photocopying, Diffusion transfer

Fast, easy and inexpensive. *Reproduction*, 2 (Jan 65) p.10-12. il.

PHOTOLITHOGRAPHY, Plate-making, Printing down frames

First steps in plate-making. R. Burnham. *Litho-Printer*, 8 (Apr 65) p.58+. il.

First steps in plate-making. R. Burnham. *Print in Britain*, 12 (Apr 65) p.40-1. il.

PHOTOLITHOGRAPHY, Plate making, Xerography

Every copy an offset master: xerographic copying plus offset duplication cuts overall cost [Addressograph-Multi-graph Ltd. Series 7-101] Reproduction, 2 (Apr 65) p.22-3. il.

PHOTOLITHOGRAPHY, Plates

Litho plates—today and tomorrow. A. R. Materazzi.

Paper & Print, 38 (Spring 65) p.39-40.

New trends in litho plates. H. Howitt. Paper & Print, 38 (Spring 65) p.27+

On buying litho plates from a trade platemaker. Paper & Print, 38 (Spring 65) p.33+

PHOTOLITHOGRAPHY, Plates, Buyers' guides

Sources of processed litho plates. Paper & Print, 38 (Spring 65) p.55

PHOTOLITHOGRAPHY, Plates, Conversion from letterpress

Conversion for litho. F. G. Wallis. Litho Printer, 8 (Sep 65) p.37-9. il. refs.

Conversion systems offer a wide choice. R. T. Bouch. Print in Britain, 13 (Sep 65) p.31-2. il.

People in the industry comment on experiences with hot-metal conversion for litho printing. Litho Printer, 8 (Sep 65) p.39-42. il.

PHOTOLITHOGRAPHY, Printing, Lists. See LISTS, Printing, Photolithography**PHOTOLUMINESCENCE, Barium oxide. See BARIUM OXIDE, Photoluminescence****PHOTOLUMINESCENCE, Cadmium sulphide. See CADMIUM SULPHIDE, Photoluminescence****PHOTOLUMINESCENCE, Zinc sulphide. See ZINC SULPHIDE, Photoluminescence****PHOTOLYSIS**

Related Headings:

LIGHT, Degradation

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PLANAR TRIODES. See TRIODES, Planar

PLANAR TRIODES, Logarithmic measurement, Current. See

CURRENT, Measurement, Logarithmic, Triodes, Planar

PLANCK-FOKKER EQUATION, Stability, Control

systems. See CONTROL SYSTEMS, Stability, Fokker-Planck equation

PLANE STRAIN. See STRAIN, Plane

PLANETARIA, Astronautics education. See ASTRONAUTICS, Education, Planetaria

PLANETARY EPICYCLIC GEAR TRAINS. See GEAR

TRAINS, Epicyclic, Planetary

PLANETARY HOT ROLLING. See ROLLING, Hot, Planetary

PLANETARY SWAGING, Stainless steel, Cans, Fuel

elements, Nuclear reactors. See NUCLEAR REACTORS,

Fuel elements, Cans, Steel, Stainless, Swaging, Planetary

PLANIMETERS, Airflow, Leaves. See LEAVES, Planimeters, Airflow

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- PLASMAS, Sheaths, Power attenuation, Radar, Tracking, Artificial satellites.** See **SATELLITES, Artificial, Tracking, Radar, Power attenuation, Plasma sheaths**
- PLASMAS, Shock waves**
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- PLASMAS-DIELECTRICS, Surface waveguides.** See **WAVEGUIDES, Surface, Plasma-Dielectric**
- PLASMOIDS, Triggered vacuum switches.** See **SWITCHES, Vacuum, Triggered, Plasmoids**
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- PLASTERING, One-coat**
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- PLASTERING, Spray**
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- PLASTIC BENDING, Composite continuous beams.** See **BEAMS, Continuous, Composite, Bending, Plastic**
- PLASTIC BENDING, Diamond, Plates.** See **PLATES, Diamond, Bending, Plastic**
- PLASTIC BENDING, Low cycle fatigue, Mild steel.** See **STEEL, Mild, Fatigue, Low cycle, Bending, Plastic**
- PLASTIC BENDING, Low cycle fatigue tests, Copper.** See **COPPER, Fatigue tests, Low cycle, Bending, Plastic**
- PLASTIC BENDING, Welded metals.** See **METALS, Welded, Bending, Plastic**
- PLASTIC COMPRESSION, Lead, Discs.** See **DISCS, Lead, Compression, Plastic**
- PLASTIC DEFORMATION, Calcite.** See **CALCITE, Plastic deformation**

- PLASTIC DEFORMATION, Crystals, Aluminium. See ALUMINIUM, Crystals, Plastic deformation
- PLASTIC DEFORMATION, Crystals, Silver. See SILVER, Crystals, Plastic deformation
- PLASTIC DEFORMATION, Extrusion, Metals. See METALS, Extrusion, Plastic deformation
- PLASTIC DEFORMATION, Face centred cubic metals. See METALS, Face centred cubic, Deformation, Plastic
- PLASTIC DEFORMATION, Iron-Cobalt. See IRON-COBALT, Plastic deformation
- PLASTIC DEFORMATION, Machining. See MACHINING, Plastic deformation
- PLASTIC DEFORMATION, Metals. See METALS, Plastic deformation
- PLASTIC DEFORMATION, Mild steel, Structures. See STRUCTURES, Steel, Mild, Plastic deformation
- PLASTIC DEFORMATION, Pipes. See PIPES, Strain, Plastic
- PLASTIC DEFORMATION, Rotating discs. See DISCS, Rotating, Deformation, Plastic
- PLASTIC DEFORMATION, Single crystals, Artificial sapphires. See SAPPHIRES, Artificial, Crystals, Single, Deformation, Plastic
- PLASTIC DEFORMATION, Single crystals, Zeta phase germanium-copper. See COPPER-GERMANIUM, Zeta phase, Crystals, Single, Plastic deformation
- PLASTIC DEFORMATION, Tensile, Effect of anisotropy, Orthotropic
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- PLASTICISERS, P.V.C. See P.V.C., Plasticisers
- PLASTICISERS, Polyesters, Vinyl polymers. See VINYL POLYMERS, Plasticisers, Polyesters
- PLASTICISERS, Polymers, P.V.C. See P.V.C., Plasticisers, Polymers
- PLASTICITY
Related Headings:
STRESS RELAXATION
- PLASTICITY, Films, Passivation, Zirconium. See ZIRCONIUM, Passivation, Films, Plasticity

PLASTICS

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PLASTICS

- Related Headings:
ACETAL RESINS
ACRYLIC PLASTICS
ACRYLONITRILE
ACRYLONITRILE-BUTADIENE-STYRENE
ACRYLONITRILE-STYRENE
ALKYD RESINS
CELLULOSE ACETATE
DIALLYL PHTHALATE
EPOXY RESINS

PLASTICS

Related Headings—cont.

FLUOROCARBONS, Resins
FURANE, Resins
HYDROCARBONS, Aromatic-Formaldehyde
NYLON
NYLON 6
P.T.F.E.
P.V.A.
P.V.C.
PHENOL FORMALDEHYDE
PHENOLIC RESINS
POLYACRYLONITRILE
POLYALDEHYDES
POLYAMIDES
POLYCARBONATE RESINS
POLYDIMETHYLACRYLAMIDE
POLYESTERS
POLYETHYL METHACRYLATE
POLYETHYLENE TEREPHTHALATE
POLYIMIDE RESINS
POLYISOBUTENE
POLYMALEIMIDES
POLYMETHYL METHACRYLATE
POLY-4-METHYL-1-PENTENE
POLYMETHYLENE
POLYOLEFINES
POLYPHENYLENE OXIDE
POLYPROPYLENE
POLYPYROMELLITIMIDE
POLYSTYRENE
POLYSULPHONES
POLYTHENE
POLYUREA
POLYURETHANE
POLYVINYL ALCOHOL
POLYVINYL CARBAZOLE
POLYVINYLIDINE CHLORIDE
RESINS
THERMOPLASTICS
UREA-FORMALDEHYDE
VINYL POLYMERS
VINYLIDENE CHLORIDE, Copolymers

PLASTICS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Technical literature

Organisations

Properties

Stresses
Viscoelasticity
Softening point
Electric strength
Weathering
Oxidation
Microbial degradation

Technical activities

Manufactures
Analysis
Quality control
Mixing
Compounders
Forming
Moulding
Extrusion
Extruders

PLASTICS—SUBHEADINGS—Synopsis—cont.

Bonding
Colouring
Coating

Finishes
Gas plating
Electroplating

Printing
Silk screen printing

Types of plastics

Expanded
Reinforced
Thermosetting
Heat resistant
Heat shrinkable

Products

Mouldings

Applications

Engineering
Mechanical engineering
Electrical insulating materials
Electronic engineering
Nuclear engineering
Building materials
Prefabricated building materials
Packaging materials

PLASTICS, Adhesives. See ADHESIVES, Synthetic resin

PLASTICS, Adhesives, Wood manufactures. See WOOD, Manufactures, Adhesives, Synthetic resins

PLASTICS, Agricultural equipment. See AGRICULTURAL EQUIPMENT, Plastics

PLASTICS, Analysis

Identification and analysis of plastics. S. F. Chancellor. Chemistry & Industry (9 Oct 65) p.1720-1

PLASTICS, Bearings. See BEARINGS, Plastics

PLASTICS, Belt drives. See BELTS, Drives, Plastics

PLASTICS, Belts, Conveyors. See CONVEYORS, Belts, Plastics

PLASTICS, Bodies, Motor cars. See MOTOR CARS, Bodies, Plastics

PLASTICS, Bodies, Motor vehicles. See MOTOR VEHICLES, Bodies, Plastics

PLASTICS, Bonding, Adhesives

Fastening plastics with adhesives. Light Production Engng., 3 (Dec 65) p.28-9. il.

PLASTICS, Bottles, Lubricating oils, Engines, Motor vehicles. See MOTOR VEHICLES, Engines, Lubricating oils, Bottles, Plastics

PLASTICS, Building materials

An approach to building in plastics. C. Riley & J. Wild.

Building Materials, 25 (Nov 65) p.34-9. il.

Before the building breakthrough. Brit. Plastics, 37 (Dec 64) p.656-9. il.

Building in plastics. R. D. Gay. Industrial Architecture, 8 (Jul 65) p.427-8

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PLASTICS, Building materials

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HOTELS, Building materials, Plastics

PLASTICS, Building materials, Technical information

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PLASTICS, Business machine components. See BUSINESS MACHINES, Components, Plastics

PLASTICS, Ceilings. See CEILINGS, Plastics

PLASTICS, Cladding, Buildings. See BUILDINGS, Cladding, Plastics

PLASTICS, Coated metals. See METALS, Coated, Plastics

PLASTICS, Coated steel, Sheets. See SHEETS, Steel, Coated, Plastics

PLASTICS, Coating, Aluminium, Vacuum deposition, Cryopumping, Nitrogen, Liquid

Use of liquid nitrogen cryopumps when vacuum metallizing plastic materials. L. Holland & D. W. Barker. Vacuum, 15 (Jun 65) p.289-99. il. refs.

PLASTICS, Coating, Papers, Packaging, Food. See FOOD, Packaging, Papers, Coating, Plastics

PLASTICS, Coating, Pretreatment

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PLASTICS, Coatings. See COATINGS, Plastics

PLASTICS, Coatings, Aluminium strips. See STRIPS, Aluminium, Coatings, Plastics

PLASTICS, Coatings, Building components. See BUILDINGS, Components, Coatings, Plastics

PLASTICS, Coatings, Electrodes, Effect on conductivity, Transformer oil. See TRANSFORMERS, Oil, Conductivity, Effect of electrodes, Coatings, Plastics

PLASTICS, Coatings, Metals. See METALS, Coating, Plastics

PLASTICS, Coatings, Strips, Steel. See STRIPS, Steel, Coatings, Plastics

PLASTICS, Coatings, Wires. See WIRES, Coatings, Plastics

PLASTICS, Colouring

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PLASTICS, Compounders, Extruder

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PLASTICS, Concreting equipment. See CONCRETING, Equipment, Plastics

PLASTICS, Containers. See CONTAINERS, Plastics

PLASTICS, Containers, Food. See FOOD, Containers, Plastics

PLASTICS, Containers, Freight. See FREIGHT, Containers, Plastics

PLASTICS, Containers, Milk. See MILK, Containers, Plastics

PLASTICS, Cooling towers. See COOLING TOWERS, Plastics

PLASTICS, Coverings, Floors, Industrial buildings. See INDUSTRIAL BUILDINGS, Floors, Coverings, Plastics
 PLASTICS, Dairy industry equipment. See DAIRY INDUSTRY, Equipment, Plastics
 PLASTICS, Domes. See DOMES, Plastics
 PLASTICS, Double glazed windows. See WINDOWS, Double glazed, Plastics

PLASTICS, Electric strength

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PLASTICS, Electrical insulating materials

Plastics for electrical insulation. J. G. Kennedy. *Building Materials*, 25 (Feb 65) p.23-5. il.

PLASTICS, Electrical insulating materials, Anomalous conductivity

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PLASTICS, Electrical insulating materials, Polluted, Erosion, Tests

Performance of synthetic insulating materials under polluted conditions. D. J. Parr & R. M. Scarisbrick. *Proc. of Instn. of Electrical Engrs.*, 112 (Aug 65) p.1625-32. il. refs.

PLASTICS, Electrical insulating materials, Polluted, Tracking, Tests

Performance of synthetic insulating materials under polluted conditions. D. J. Parr & R. M. Scarisbrick. *Proc. of Instn. of Electrical Engrs.*, 112 (Aug 65) p.1625-32. il. refs.

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PLASTICS, Electroplating, Testing

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PLASTICS, Film, Surface protection, Aluminium component manufacture, Aircraft. See AIRCRAFT, Components, Aluminium, Manufactures, Surface protection, Film, Plastics

PLASTICS, Filters, Emulsions, Films, Monitors, Industrial health, Beta radiation. See BETA RADIATION, Industrial health, Monitors, Films, Emulsions, Filters, Plastics

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PLASTICS, Fittings, Buildings. See BUILDINGS, Fittings, Plastics

PLASTICS, Fittings, Hospitals. See HOSPITALS, Fittings, Plastics

PLASTICS, Fittings, Housing. See HOUSING, Fittings, Plastics

PLASTICS, Floor coverings. See FLOORS, Coverings, Plastics

PLASTICS, Folded plates, Roofs. See ROOFS, Plates, Folded, Plastics

PLASTICS, Footwear. See FOOTWEAR, Plastics

PLASTICS, Furniture. See FURNITURE, Plastics

PLASTICS, Gas plating

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PLASTICS, Insulation, Electrical cables. See **CABLES, Electric, Insulation, Plastics****PLASTICS, Interior decoration, Hotels.** See **HOTELS, Interior decoration, Plastics****PLASTICS, Interior decoration, Restaurants.** See **RESTAURANTS, Interior decoration, Plastics****PLASTICS, Laminates.** See **LAMINATES, Plastics****PLASTICS, Laminates, Wood manufactures.** See **WOOD, Manufactures, Laminates, Plastics****PLASTICS, Luminous ceilings.** See **CEILINGS, Luminous, Plastics****PLASTICS, Manufactures**

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PLASTICS, Manufactures, Web tension, Control

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PLASTICS, Mechanical handling equipment. See **MECHANICAL HANDLING, Equipment, Plastics****PLASTICS, Medical equipment.** See **MEDICAL EQUIPMENT, Plastics****PLASTICS, Microbial degradation, Testing**

- Microbiological testing of plastics. R. Burgess & A. E. Darby. *Brit. Plastics*, 38 (Mar 65) p.165-9. refs.

PLASTICS, Mixing

- Developments in mixing, dry blending, compounding and fine grinding. B. Potter. *International Plastics Engng.*, 5 (Sep 65) p.326-30. il.

PLASTICS, Models. See **MODELS, Plastics****PLASTICS, Moulding**

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PLASTICS, Moulding, Injection

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PLASTICS, Moulding, Injection, Design

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PLASTICS, Moulding, Injection, Machines

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PLASTICS, Moulding, Machines

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PLASTICS, Moulding, Moulds, Components, Machining, Lathes, Centre, Tracing attachments

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PLASTICS, Moulding, Moulds, Manufactures

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Post-treatment of plastics mouldings. T. N. Harris. Plastics Inst. Trans. & J., 33 (Jun 65) p.75-7

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PLASTICS, Oxidation, Wet, Hydrogen peroxide-Sulphuric acid

Use of 50 per cent. hydrogen peroxide for the wet oxidation of organic materials. R. P. Taubinger & J. R. Wilson.
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PLASTICS, Packaging, Food. See FOOD, Packaging, Plastics**PLASTICS, Packaging materials**

Plastics in packaging from the users' point of view. J. Briston. Perfumery & Essential Oil Record, 56 (Sep 65) p.614-19

PLASTICS, Packaging materials, Printing, Dry offset

Offset letterpress printing. R. J. Wall. Plastics Inst. Trans. & J., 33 (Jun 65) p.59-62. il.

PLASTICS, Packings, Filtration, Effluents, Water pollution. See WATER, Pollution, Effluents, Filtration, Packings, Plastics**PLASTICS, Paint. See PAINT, Plastics****PLASTICS, Paint, Markings, Roads. See ROADS, Markings, Paint, Plastics****PLASTICS, Panels, Flats. See FLATS, Panels, Plastics****PLASTICS, Petri dishes, Cultures, Bacteriology. See BACTERIOLOGY, Cultures, Petri dishes, Plastics****PLASTICS, Pipes. See PIPES, Plastics****PLASTICS, Pipes. See PIPES, Thermoplastics****PLASTICS, Pipes, Drainage, Land. See LAND, Drainage, Pipes, Plastics****PLASTICS, Pipes, Textile manufactures. See TEXTILES, Manufactures, Pipes, Plastics****PLASTICS, Powders, Coatings. See COATINGS, Powders, Plastics****PLASTICS, Prefabricated building materials**

Future for the plastics as a structural material. C. J. Hawkins. Applied Plastics, 8 (Dec 65) p.28+ il.
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PLASTICS, Prefabricated engineering services components, Housing. See HOUSING, Engineering services, Prefabricated, Components, Plastics**PLASTICS, Printed electric motors. See ELECTRIC MOTORS, Printed, Plastics****PLASTICS, Printing**

Why is screen printing and decoration on plastics increasing so rapidly? E. A. Kuffall. Applied Plastics, 8 (Apr 65) p.21-2. il.

PLASTICS, Printing, Equipment

Marking of plastics. Rubber & Plastics Age, 45 (Dec 64) p.1485-6. il.

PLASTICS, Printing equipment. See PRINTING, Equipment, Plastics**PLASTICS, Prostheses, Faces. See FACES, Prostheses, Plastics****PLASTICS, Public buildings. See PUBLIC BUILDINGS, Plastics****PLASTICS, Quality control**

Quality control of plastics. C. L. Child & R. D. Bacon.
Tooling, 19 (Sep 65) p.19+ il.

PLASTICS, Quality control, West Germany

Quality control in the West German plastics industry. Brit. Plastics, 38 (Dec 65) p.737-9. il.

PLASTICS, Railways. See RAILWAYS, Plastics**PLASTICS, Rainwater goods. See RAINWATER GOODS, Plastic****PLASTICS, Refrigeration equipment. See REFRIGERATION, Equipment, Plastics****PLASTICS, Reinforced**

Application of reinforced plastics. W. F. Atkinson.

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Reinforced plastics. L. Sanderson. Tooling, 19 (Jun 65) p.23+

Reinforcement of polymers, pt.2: metal and metal oxide linkages. A. J. Pickett. Rubber & Plastics Age, 46 (May 65) p.487-9. il. refs.

PLASTICS, Reinforced

Related Headings:

EPOXY RESIN-GLASS FIBRE

NYLON-GLASS FIBRE

POLYESTER-GLASS FIBRE

PLASTICS, Reinforced, Bearings. See BEARINGS, Plastics, Reinforced**PLASTICS, Reinforced, Bodies, Commercial vehicles. See VEHICLES, Commercial, Bodies, Plastics, Reinforced****PLASTICS, Reinforced, Bodies, Electric locomotives. See LOCOMOTIVES, Electric, Bodies, Plastics, Reinforced****PLASTICS, Reinforced, Bodies, Motor caravans. See MOTOR CARAVANS, Bodies, Plastics, Reinforced****PLASTICS, Reinforced, Building materials, Fires**

Reinforced plastics and fire protection in buildings. L. A. Ashton. Reinforced Plastics, 9 (Jun 65) p.298+

PLASTICS, Reinforced, Chemical engineering plant. See CHEMICAL ENGINEERING, Plant, Plastics, Reinforced**PLASTICS, Reinforced, Electrical insulating materials**

Applications for electrical insulation materials. A. B. Phipps. Machinery Lloyd (Overseas ed.) 37 (2 Jan 65) p.21-2

Potential of laminated plastics [Tufnol] W. S. Farrall. Electrical Manufacturer, 9 (Mar 65) p.9-12. il. ref.

PLASTICS, Reinforced, Honeycomb. See HONEYCOMB, Plastics, Reinforced**PLASTICS, Reinforced, Hulls, Boats. See BOATS, Hulls, Plastics, Reinforced****PLASTICS, Reinforced, Internal gel coats**

Internal gel coat. S. Oswitch. Reinforced Plastics, 9 (Jan 65) p.143-5

Internal gel coat. S. Oswitch. Reinforced Plastics, 9 (Feb 65) p.170-2

PLASTICS, Reinforced, Moulding, Dies, Metals

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PLASTICS, Reinforced, Moulding, Press, Cold

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PLASTICS, Reinforced, Moulding, Temperature, Determination

Automatic determination of heat deflection temperature.

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PLASTICS, Reinforced, Pilot launches. See LAUNCHES, Pilot, Plastics, Reinforced**PLASTICS, Reinforced, Plates, Packed towers. See PACKED TOWERS, Plates, Plastics, Reinforced**

PLASTICS, Reinforced, Prefabricated building materials

Reinforced plastics as load bearing elements. C. A. J. Benfield. *Industrialised Building*, 2 (Sep 65) p.58+. il.

PLASTICS, Reinforced, Pressure vessels. See PRESSURE VESSELS, Plastics, Reinforced

PLASTICS, Reinforced, Tanks. See TANKS, Plastics, Reinforced

PLASTICS, Reinforced-Balsawood, Laminates. See LAMINATES, Balsawood-Plastics, Reinforced

PLASTICS, Reinforced-Glass fibre

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Glass fibre reinforced plastics—a new weapon against corrosion. D. Pickthall. *Plant Engr.*, 9 (Sep/Oct 65) p.289-98. il.

Glass reinforced plastics and thermosets. *Brit. Plastics*, 38 (Jun 65) p.331-4. il.

PLASTICS, Reinforced-Glass fibre, Boats. See BOATS, Plastics, Reinforced-Glass fibre

PLASTICS, Reinforced-Glass fibre, Bodies, Motor vehicles. See MOTOR VEHICLES, Bodies, Plastics, Reinforced-

PLASTICS, Reinforced-Glass fibre, Creep

Creep and stress-rupture of reinforced plastics. D. J. Steel. *Plastics Inst. Trans. & J.*, 33 (Oct 65) p.161-7. il. refs.

Creep resistance and low-cycle fatigue of fibreglass plastics. S. V. Serensen & V. S. Strelayev. *Instn. of Mechanical Engrs. Proc.*, 178 pt.3A (1963/64) p.3-93-8. il. refs.

Glass fibre

PLASTICS, Reinforced-Glass fibre, Engineering

Engineering design properties of glass reinforced plastics. *Brit. Plastics*, 38 (Feb 65) p.80-2. il.

PLASTICS, Reinforced-Glass fibre, Fatigue

Creep resistance and low-cycle fatigue of fibreglass plastics. S. V. Serensen & V. S. Strelayev. *Instn. of Mechanical Engrs. Proc.*, 178 pt.3A (1963/64) p.3-93-8. il. refs.

PLASTICS, Reinforced-Glass fibre, Filament wound, Engineering

Filament winding as an engineering concept. R. J. Abelson. *Reinforced Plastics*, 9 (Dec 64) p.107-10

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Armshire Reinforced Plastics' steady expansion. *Reinforced Plastics*, 9 (Aug 65) p.350-1. il.

PLASTICS, Reinforced-Glass fibre, Pipes. See PIPES, Plastics, Reinforced-Glass fibre

PLASTICS, Reinforced-Glass fibre, Resin-Fibre adhesion

Studies of the glass/resin interface. D. I. James, M. P. Stone & W. C. Wake. *Applied Plastics*, 8 (Jan 65) p.49+. il. refs.

PLASTICS, Reinforced-Glass fibre, Strength

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PLASTICS, Reinforced-Glass fibre, Testing, N.O.L rings

NOL rings for composite materials research and development. F. R. Barner. *Plastics Inst. Trans. & J.*, 33 (Oct 65) p.177-87. il. refs.

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PLASTICS, Reinforced-Jute

Plastics reinforcement with jute cloth. A. R. Philip. *Engng. Materials & Design*, 8 (Jul 65) p.475-9. il.

PLASTICS, Rolling stock, Railways. See ROLLING STOCK (Railways) Plastics

PLASTICS, Roofing. See ROOFING, Plastics

PLASTICS, Sacks. See SACKS, Plastic

PLASTICS, School components. See SCHOOLS, Components, Plastics

PLASTICS, Sheets. See SHEETS, Plastics

PLASTICS, Silk screen printing

Screen printing on plastics. R. A. Lake. *Plastics*, 30 (Apr 65) p.55-8. il.

Silk-screen printing. R. V. Blease. *Plastics Inst. Trans. & J.*, 33 (Jun 65) p.63-6

PLASTICS, Softening point, Determination, Instruments

Softening point measurement of glass, ceramics and plastics [Materiaphone] *Chemical Processing*, 11 (Mar 65) p.54-5. il.

PLASTICS, Spheres. See SPHERES, Plastics

PLASTICS, Stresses, Biaxial, Tests, Specimens, Tubes, Polythene, Casting, Centrifugal

Producing accurate tubular test specimens from polythene. J. D. Wiggler & J. C. Williams. *Brit. Plastics*, 38 (Jun 65) p.362-3. il. refs.

PLASTICS, Switchgear. See SWITCHGEAR, Plastics

PLASTICS, Tanks, Road tankers. See TANKERS, Road, Tanks, Plastic

PLASTICS, Technical literature, Indexes, Coordinate

Information retrieval system for plastics. A. T. Jones. *Brit. Plastics*, 38 (Nov 65) p.628-9. il. refs.

PLASTICS, Telephony equipment. See TELEPHONY, Equipment, Plastics

PLASTICS, Thermosetting

Glass reinforced plastics and thermosets. *Brit. Plastics*, 38 (Jun 65) p.331-4. il.

PLASTICS, Thermosetting, Buttons. See BUTTONS, Plastics, Thermosetting

PLASTICS, Thermosetting, Moulding, Machines

Thermoset moulding machines with screw preplasticizer. *International Plastics Engrng.*, 5 (Oct 65) p.339-46. il.

PLASTICS, Thermosetting, Paint. See PAINT, Plastics, Thermosetting

PLASTICS, Tooling. See TOOLING, Plastics

PLASTICS, Town gas equipment. See GAS (Town) Equipment, Plastics

PLASTICS, Trim, Motor cars. See MOTOR CARS, Trim, Plastics

PLASTICS, Upholstery, Motor cars. See MOTOR CARS, Upholstery, Plastics

PLASTICS, Uppers, Shoes. See SHOES, Uppers, Plastics

PLASTICS, Vehicle components. See VEHICLES, Components, Plastics

PLASTICS, Viscoelasticity

Study of plastic composites [plasticised and partially crystalline polymers, reinforced plastics] S. Turner. *Applied Materials Research*, 4 (Jan 65) p.10-19. il. refs.

PLASTICS, Washers. See WASHERS, Plastics

PLASTICS, Weathering

Some thoughts on the weathering of plastics. J. M. J. Estevez. *Plastics Inst. Trans. & J.*, 33 (Jun 65) p.89-94

PLASTICS, Windows, Aircraft. See AIRCRAFT, Windows, Plastics

PLASTICS-ALUMINIUM, Blades, Rotors, Helicopters. See HELICOPTERS, Rotors, Blades, Aluminium-Plastics

PLASTICS-CERAMICS, Dies. See DIES, Ceramics-Plastics

PLASTICS-CONCRETE, Pipes, Sea disposal, Effluents. See EFFLUENTS, Disposal (Sea) Pipes, Concrete-Plastics

PLASTICS-COPPER, Laminates, Printed electronic circuits. See CIRCUITS, Electronics, Printed, Laminates, Copper-Plastics

PLASTICS-WOOD, Laminates. See LAMINATES, Plastics-Wood

PLASTISOLS, Coatings. See COATINGS, Plastisols

PLASTISOLS, P.V.C. See P.V.C., Plastisols

PLATE COLUMNS, Distillation. See DISTILLATION, Columns, Plate

PLATE COLUMNS, Fractional distillation. See DISTILLATION, Fractional, Columns, Plate

PLATE COLUMNS, Fractional distillation, Methyl alcohol production. See METHYL ALCOHOL, Production, Distillation, Fractional, Columns, Plate

PLATE COLUMNS, Sieve plates
Optimum design of sieve trays. I. J. Harris. *Brit. Chemical Engng.*, 10 (Jun 65) p.377-81. il. refs.

PLATE EVAPORATORS. See EVAPORATORS, Plate

PLATE GLASS. See GLASS, Plate

PLATE GLASS, Doors, Halls of residence. See HALLS OF RESIDENCE, Doors, Glass, Plate

PLATE HEAT EXCHANGERS, Milk pasteurisation. See MILK, Pasteurisation, Heat exchangers, Plate

PLATE-MAKING, Photolithography. See PHOTOLITHOGRAPHY, Plate-making

PLATE ORIFICES. See ORIFICE PLATES

PLATE-WEB GIRDERS. See GIRDERS, Plate-web

PLATENS, Stray field, R.F. heating, Curing, Adhesives, Wood manufactures. See WOOD, Manufactures, Adhesives, Curing, Heating, R.F., Stray field platens

PLATES-SUBHEADINGS-Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Strength
Bending
Vibrations

Materials
Metals
Steel
Steel-Manganese
Steel-Chromium-Molybdenum-Nickel
Zirconium
Aluminium-Bronze
Diamond
Composite
Sandwich

Parts
Inclusions
Flanges

Types of plates
Stiffened
Perforated
Holes
Orthotropic
Rectangular
Square
Rhombic
Skewed
Circular
Isosceles triangular
Cantilever

Applications
(Pressure vessels)

PLATES, Aluminium-Bronze, Welding, Cracking

Cracking of aluminium bronze plate during welding. K. J. Clews. *Brit. Welding J.*, 12 (Jun 65) p.301-9. il. refs.

PLATES, Bending, Analogues, Gridworks

Representation of a plate in flexure by a grid of orthogonally connected beams. A. L. Yettram & H. M. Husain. *International J. of Mechanical Sciences*, 7 (Apr 65) p.243-51. il. refs.

PLATES, Bending, Analogues, Gridworks, Triangular

Representation of edge-supported plates in flexure by triangulated grid-frameworks. A. L. Yettram & D. J. Just. *International J. of Mechanical Sciences*, 7 (Jun 65) p.415-20. il. refs.

PLATES, Bending, Discontinuities

Discontinuities in bent plates. R. G. Redwood. *Aeronautical Q.*, 16 (Nov 65) p.388-98. il. refs.

PLATES, Bending, Strain gauges

Experimental determination of bending stresses in plates. R. Kitching. *Bull. of Mechanical Engng Education*, 11 (Sep 65) p.227-31 Ref.

PLATES, Cantilever, Swept, Stresses, Analysis

Direct stress analysis of swept cantilever plates at low aspect ratio. A. Coull. *Aircraft Engng.*, 37 (Jun 65) p.182-90. il.

PLATES, Circular, Coupled, Elastically (Foundations, Elastic) Bending

Bending and stretching of elastically coupled circular plates on elastic foundation. Z. Zudans. *Nuclear Energy* (Feb 65) p.36-49. il. refs.

Bending and stretching of elastically coupled circular plates on elastic foundations (contd.) Z. Zudans. *Nuclear Energy* (May 65) p.150-6. il.

PLATES, Circular, Coupled, Elastically (Foundations Elastic) Stretching

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POLY (5-IODOPENTENE-1)

POLY (11-IODOUNDECENE-)

POLY-3-METHYLBUTENE-1

2,4-POLYMETHYLENEBIPHENYLS

POLYOXYALYL *trans*-2,5,DIMETHYLPIPERAZINE

POLYPEPTIDES

POLYQUINONES

POLYSILANES

POLYTEREPHTHALOYL *trans*-2,5,DIMETHYLPIPERAZINE

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POLYVINYLIDENE CHLORIDE, Emulsion paint. See PAINT, Emulsion, Polyvinylidene chloride**POLY-4-VINYLPYRIDINIUM CHLORIDE (Aqueous solutions) Light scattering**

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See

PETROLEUM, Refineries, Port Harcourt

PORT TALBOT

See

TOWN PLANNING, Port Talbot

PORTAL CRANES, Mechanical handling, Precast concrete building units, Housing. See HOUSING, Concrete, Precast, Building units, Mechanical handling, Cranes, Portal**PORTAL FRAMES, Churches. See CHURCHES, Portal frames****PORTAL FRAMES, Farm buildings. See FARM BUILDINGS, Frames, Portal****PORTAL FRAMES, Sheds. See SHEDS, Portal frames****PORTAL FRAMES, Vibrations**

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QUICK-FROZEN VEGETABLES. See VEGETABLES, Quick-frozen

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IRRADIATION
LIGHT
PHOTON DRAG
RADIOACTIVITY
RADIOGRAPHY
ULTRAVIOLET RADIATION
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RADICALS, Free, Determination, Chars. See CHARS, Determination of free radicals

RADICALS, Free, Determination, Coal. See COAL, Determination of free radicals

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RADICALS, Free, cis-trans Isomerisation, cis, trans, trans-1,5,9-Cycladodecatriene. See cis, trans, trans-1,5,9-CYCLODODECATRIENE, cis-trans Isomerisation, Free radicals

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RADIO

Related Headings:

CONTROL, Remote
RADAR

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This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Particular localities

Underdeveloped countries

Problems

Interference

Fading

Transmission

Waves

Frequencies

Equipment

Aerials

Amplifiers

Oscillators

Stations

Transmitters

Receivers

Monitors

Transmit-receive switching

Systems

V.L.F.

L.F.

M.F.

H.F.

V.H.F.

Microwave

U.H.F.

RADIO—SUBHEADINGS—Synopsis—cont.

Single sideband
Frequency modulation
Stereo

Applications

Communication
Aircraft
Railways

Ancillaries

Studios
Sound effects

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Observation of radioactive fall-out in Nigeria up to 1961. B. N. C. Agu. *Nature*, 205 (13 Feb 65) p.649-51. il. refs.

RADIOACTIVITY, Fall-out, Sodium-22. See SODIUM-22, Radioactivity, Fall-out**RADIOACTIVITY, Fall-out, Strontium-90. See STRONTIUM-90, Radioactivity, Fall-out****RADIOACTIVITY, Fall-out, Variations, Effect of precipitation**

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RADIOACTIVITY, Water. See WATER, Radioactivity
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RADIOCHEMISTRY
 Related Headings:
 RADIOLYSIS
RADIOCHEMISTRY, Initiator studies, Polymerisation. See POLYMERISATION, Initiators, Studies, Radiochemistry
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 MICORADIOGRAPHY
 NEUTRONS, Epithermal, Radiography
 NEUTRONS, Radiography

RADIOGRAPHY, Boilers. See BOILERS, Radiography
RADIOGRAPHY, Bubbles, Gas-Solid fluidised beds. See FLUIDISED BEDS, Gas-Solid, Bubbles, Radiography
RADIOGRAPHY, Cast iron, Shielding, Nuclear reactors. See NUCLEAR REACTORS, Shielding, Iron, Cast, Radiography
RADIOGRAPHY, Castings, Steel. See STEEL, Castings, Radiography

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RADIOGRAPHY, Insulating materials, Cable boxes. See CABLE BOXES, Insulating materials, Radiography

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RADIOGRAPHY, METALS, Mining, Prospecting, Geochemical, Spectroscopy, X-ray fluorescence, Excitation, Radioisotopes

RADIOGRAPHY, Smoke, Cigarettes. See CIGARETTES, Smoke, Radiography

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RADIOISOTOPES, Carbon-14, Fermentation studies, Phenylalanine, Phenethyl alcohol production. See PHENETHYL ALCOHOL, Production, Phenylalanine, Fermentation, Studies, Radioisotopes, Carbon-14

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RADIOISOTOPES, Excitation, X-ray fluorescence spectroscopy, Geochemical prospecting, Metal mining. See

RADIOISOTOPES, Fat formation studies, Milk. See MILK, Fat, Formation, Studies, Radioisotopes

RADIOISOTOPES, Flowmeters. See FLOWMETERS, Radioisotopes

RADIOISOTOPES, Leak measurement, Boilers, Nuclear power stations. See NUCLEAR POWER STATIONS, Boilers, Leaks, Measurement, Radioisotopes

RADIOISOTOPES, Medical radiology. See MEDICAL RADIOLOGY, Radioisotopes

RADIOISOTOPES, Mercury diffusion studies, Single crystals, Gold. See GOLD, Crystals, Single, Mercury diffusion, Studies, Radioisotopes

RADIOISOTOPES, Microstructure studies, Iron-Tin. See IRON-TIN, Microstructure, Studies, Radioisotopes

RADIOISOTOPES, Organophosphorus compounds reactions with iron. See IRON, Reactions with organophosphorus compounds, Studies, Radioisotopes

RADIOISOTOPES, Oxidation studies, Phosphoric acid solutions, Niobium anodes. See ANODES, Niobium, Phosphoric acid solutions, Oxidation, Studies, Radioisotopes

RADIOISOTOPES, Oxidation studies, Phosphoric acid solutions, Tantalum anodes. See ANODES, Tantalum, Phosphoric acid solutions, Oxidation, Studies, Radioisotopes

RADIOISOTOPES, Oxidation studies, Sulphuric acid solutions, Tantalum anodes. See ANODES, Tantalum, Sulphuric acid solutions, Oxidation, Studies, Radioisotopes

RADIOISOTOPES, Petroleum production. See PETROLEUM, Production, Radioisotopes

RADIOISOTOPES, Potassium chromates, Inhibitors, Aqueous solutions, Corrosion, Zinc. See ZINC, Corrosion, Aqueous solutions, Inhibitors, Potassium chromates, Studies, Radioisotopes

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RADIOISOTOPES, Silver determination, Effluents. See

EFFLUENTS, Determination of silver, Radioisotopes

RADIOISOTOPES, Sludge. See SLUDGE, Radioisotopes

RADIOISOTOPES, Textile manufacture testing. See TEXTILES, Manufactures, Testing, Radioisotopes

RADIOISOTOPES, Tracers

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RADIOISOTOPES, X-ray fluorescence spectroscopy, Slurries, Mineral dressing.

See MINERAL DRESSING, Slurries, X-ray fluorescence spectroscopy, Radioisotopes

RADIOLOGY, Medical.

See MEDICAL RADIOLOGY

RADIOLYSIS, Aqueous solutions, Choline chloride.

See CHOLINE CHLORIDE, Aqueous solutions, Radiolysis

RADIOLYSIS, Gases, Hydrocarbons.

See HYDROCARBONS, Gases, Radiolysis

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RADIOMETERS

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BOLOMETERS

RADIOMETERS, Control systems, Temperature, Sintering, Aluminium, Coating, Steel wires.

See WIRES, Steel, Coating, Aluminium, Sintering, Temperature, Control systems, Radiometers

RADIOMETERS, Gain measurement, Aerials, Stations,

Communication satellites. See SATELLITES, Artificial, Communication, Stations, Aerials, Gain, Measurement, Radiometers

RADIUM-BERYLLIUM, Sources, Fast neutrons.

See NEUTRONS, Fast, Sources, Beryllium-Radium

RADIUM-BERYLLIUM, Sources, Photoneutrons.

See PHOTONEUTRONS, Sources, Beryllium-Radium

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Development and perfection of survival equipment. J. B. Francey. *Shipping World & Shipbuilder*, 154 (20 May 65) p.546-8. il.

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See DOLLS, Rag

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RAGS, Woollen, Industry

Woollen rag trade, 1965. H. Burrows. *Wool Record*, 107 (8 Jan 65) p.25-6

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Hungarian-built diesel trains for Russia and China. *Railway Gaz.*, 121 (21 May 65) p.395-6. il.

Suburban diesel trains for Egypt [Hitachi Ltd., Japan]

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Goods brakevans for New South Wales Government Railways. *Railway Gaz.*, 121 (15 Oct 65) p.834. il.

RAILCARS, Diesel, Rack railways.

See RAILWAYS, Rack, Railcars, Diesel

RAILCARS, Diesel, Transmissions, Shafts, Stresses, Telemetering

Measuring stresses in cardan shafts: radio telemetry is used by British Railways to transmit strain measurements on railcar cardan shaft drive. R. Hartle *Railway Gaz.*, 121 (15 Oct 65) p.818-20. il

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Modern secondary-line trains: lightweight construction three-car trains with diesel propulsion for private railways in Denmark. E. Helmo. *Railway Gaz.*, 121 (20 Aug 65) p.641-6. il.

RAILCARS, East Germany

General-purpose diesel railcar [German State Railway (DR)] *Railway Gaz.*, 121 (15 Oct 65) p.816-17. il.

RAILCARS, Electric, Rack railways.

See RAILWAYS, Rack, Railcars, Electric

RAILINGS, Bridges

Bridge parapets & balustrading. *Highways & Bridges & Engng. Works*, 33 (21 Jul 65) p.8+. il.

RAILS, Balconies, Stairwells.

See STAIRWELLS, Balconies,

RAILS, Joints, Track circuits, Signalling systems, Railways.

See RAILWAYS, Signalling systems, Track circuits, Rail joints

RAILS, Permanent way.

See PERMANENT WAY, Rails

RAILS, Welded, Permanent way.

See PERMANENT WAY, Rails, Welded

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Future of railways: extracts from "Development of railway technique and operation". J. P. Koster. *Engineer*, 219 (12 Mar 65) p.474

RAILWAYS

Related Headings:

RAPID TRANSIT

ROLLING STOCK, Passenger, Railways

ROLLING STOCK, Railways

SIGNALBOXES

TRAINS

RAILWAYS-SUBHEADINGS-Synopsis

This synopsis shows, in *italic*, related subheadings which are separated in the alphabetical sequence following.

Particular localities**Great Britain****England**

Stokes Bay

Southend-on-Sea

Lydford-Launceston

Much Wenlock

Yorkshire

Wales

Ffestiniog

Gorseddau

Glamorgan

Isle of Man**Scotland**

East Kilbride

Ireland**Europe**

France

RAILWAYS—SUBHEADINGS—Synopsis—cont.

Netherlands
 Rotterdam
 Germany
 Berlin
 West Germany
 Ruhr
 Spain
 Asia
 Syria
 Saudi Arabia
 Hedjaz
 India
 Pakistan
 Karachi
 East Pakistan
 Thailand
 Japan
 Osaka-Tokyo
 Africa
 Algeria
 East Africa
 Togo
 Cameroon
 North America
 Canada
 Ontario
 U.S.A.
 San Francisco
 Mexico
 South America
 Brazil
 Peru
 Australia
 Western Australia

 Research
 Museums

 Problems
 Safety
 Accidents

 Construction

 Industrial design

 Operation
 Operational research
 Work study

 Materials
 Plastics

 Equipment
 Control systems
 Computers
 Communications
 Telephony
 Radio
 Signalling systems
 Signalboxes
 Booking systems
 Tickets

 Hoisting, Equipment
 Cranes
 Vehicles
 Wagons

 Structures
 Buildings

RAILWAYS—SUBHEADINGS—Synopsis—cont.

 Stations
 Workshops
 Bridges
 Viaducts
 Tunnels

 Facilities
 Track, Switches
 Level crossings
 Marshalling yards
 Types
 Narrow gauge
 Electric
 Electrification
 Underground
 Rack

 Services
 Airports

RAILWAYS, Accidents

Collision at Bradford. *Railway Gaz.*, 121 (Feb 65) p.123
 Collision at Itchingfield Junction. *Railway Gaz.*, 121 (4 Jun 65) p.459
 Derailment at Bethnal Green. *Railway Gaz.*, 121 (19 Mar 65) p.249
 Derailment at Cheadle Hulme. *Railway Gaz.*, 121 (16 Apr 65) p.333
 Inquiry into derailments on the Victorian railways. *Railway Gaz.*, 121 (3 Sep 65) p.688-90. il.
 Newspaper train smash. A. M. Bowman. *Railway Magazine*, 111 (Sep 65) p.502-3. il.
 Trends in one year's railway accidents. *Engineering*, 200 (3 Dec 65) p.713-14. il.

RAILWAYS, Accidents, India

Prevention of accidents on Indian railways. G. S. Khosla. *Railway Gaz.*, 121 (6 Aug 65) p.607-8. il.

RAILWAYS, Accidents, Investigation, Photography, Cameras, Polaroid

Site record photography: application of polaroid land cameras to mishap and obstruction investigation by London Transport Board. *Railway Gaz.*, 121 (15 Jan 65) p.75-6. il.

RAILWAYS, Airports

To the airport—by rail. T. James. *Transport Age*, 5 (Mar 65) p.17-19. il.

RAILWAYS, Algeria

Rehabilitation of the Algerian railways. *Railway Gaz.*, 121 (17 Sep 65) p.741-2. il.

RAILWAYS, Berlin

Hundred years of the Berlin Railways, pt.2: visitors guide to Berlin's Tramway. P. J. Walker. *Modern Tramway*, 28 (Jul 65) p.237-46. il.
 One hundred years of the Berlin Railways: pt.3—first thirty years (1865-1894) P. J. Walker. *Modern Tramway*, 28 (Aug 65) p.269-77. il.
 One hundred years of the Berlin Railways, pt.7: railways, light and otherwise. P. J. Walker. *Modern Tramway*, 28 (Dec 65) p.414-25. il.

RAILWAYS, Brazil

Brazilian communications plan. *Railway Gaz.*, 121 (Feb 65) p.111-13. il.

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Reconstruction of Trent viaduct: single-line superstructure erected within the old truss girders. *Railway Gaz.*, 121 (1 Oct 65) p.790+. il.
 Trent viaduct reconstructed: superstructure composed of welded steel plate main girders. *Contract J.*, 205 (13 Jun 65) p.659-60. il.

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Grosvenor Railway Bridge reconstruction. *Contract J.*, 203 (Feb 65) p.881+. il.

Rebuilding bridge over canal [British Railways, Western Region] *Railway Gaz.*, 121 (15 Oct 65) p.832-3. il.

Reconstruction of Grosvenor Bridge: replacement of a four-span bridge carrying nine tracks—without interrupting heavy traffic. *Railway Gaz.*, 121 (4 Jun 65) p.443-6. il.

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Constructing a diveunder at Retford in Notts. *Civil Engng. & Public Works Rev.*, 60 (Jan 65) p.81-2. il.

Retford diveunder. *Railway Magazine*, 111 (Aug 65) p.435-9. il.

Three-tier bridge at Retford. *Railway Gaz.*, 121 (1 Jan 65) p.24-5. il.

RAILWAYS, Bridges, Tay River

Bridge maintenance in Scotland [Tay Bridge] *Railway Gaz.*, 121 (3 Sep 65) p.697-8. il.

First major overhaul for Tay Bridge. *Contract J.*, 203 (4 Feb 65) p.605. il.

Tay Bridge renewals. *Railway Magazine*, 111 (Mar 65) p.158-9. il.

RAILWAYS, Bridges, Victoria Falls

Spanning the Zambesi [Victoria Falls Bridge.] *Railway Magazine*, 111 (Nov 65) p.626-9. il.

RAILWAYS, Buildings, Disused

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Transcameroun railway. *Railway Gaz.*, 121 (15 Jan 65) p.54-6. il.

RAILWAYS, Canada

Construction of Great Slave Lake Railway, C.N.R. *Railway Gaz.*, 121 (6 Aug 65) p.620-1. il.

RAILWAYS, Communications, Engineering

Communications on the Lamco railway. *Railway Gaz.*, 121 (3 Sep 65) p.699-703. il.

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Application of computers to J.N.R. management, pt.2: collation and preparation of statistics. M. Okubo. *Railway Gaz.*, 120. (18 Dec 64) p.1025-7. il.

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Hassan-Mangalore construction. *Railway Gaz.*, 121 (20 Aug 65) p.662. il.

RAILWAYS, Containers, Freight. See FREIGHT, Containers, Railways**RAILWAYS, Control systems**

Application of automatic control theory to railways. F. T. Barwell, J. P. Cooles & H. H. C. Barton. *Instn. of Mechanical Engrs. Proc.*, 179 pt.3A (1964/65) p.8-19. il. refs.

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Automatic control and systems aspects of train and railway operation. L. Hix. *Instn. of Mechanical Engrs. Proc.*, 179 pt.3A (1964/65) p.80-95. il.

Automatic driving of trains. H. Ruhlmann. *Instn. of Mechanical Engrs. Proc.*, 179 pt.3A (1964/65) p.106-12. il.

British Rail's modernization gathers pace. *Control*, 9 (Aug 65) p.450-1. il.

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Computerised signalling and train running control: advanced system with cab signals and automatic speed regulation on the Milan Metropolitan. *Railway Gaz.*, 121 (19 Mar 65) p.230-3. il.

Operating requirements of an automatic railway. D. McKenna. *Instn. of Mechanical Engrs. Proc.*, 179 pt.3A (1964/65) p.3-7.

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RAILWAYS, Cranes, Jib, Diesel-electric

Heavy railway crane [EDK 1000] *Engineer*, 219 (12 Feb 65) p.322-3. il.

RAILWAYS, Cranes, Locomotive, Jib

Crane-locomotives. R. A. S. Abbott. *Engineer*, 220 (3 Sep 65) p.376-9. il.

Crane-locomotives, pt. 2. R. A. S. Abbott. *Engineer*, 220 (10 Sep 65) p.419-21. il.

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RAILWAYS, East Africa

Administration of East African Railways. Ministerial Communications Committee takes over rail network serving Kenya, Tanzania and Uganda. *Railway Gaz.*, 121 (Feb 65) p.95-8. il.

RAILWAYS, East Kilbride

East Kilbride—closure or development? G. H. Robin. *Railway Magazine*, 111 (Jan 65) p.2-5. il.

RAILWAYS, East Pakistan

East Pakistan third five-year plan: continued modernisation on the Pakistan Eastern Railway follows progressive improvements over the past 18 years. S. M. Azfal. *Railway Gaz.*, 121 (3 Dec 65) p.957-8. il.

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Will traction development keep abreast of requirements? electrical engineering in future rail systems. *Electrical Rev.*, 177 (6 Aug 65) p.205-6. il.

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Electrification of the Bergen Railway: opening of the Voss-Ustaostet line to electric traction completes a 12-year project. *Railway Gaz.*, 121 (5 Mar 65) p.202-3. il.

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Automatic driving of passenger trains on London Transport. R. Dell & A. W. Manser. *Instn. of Mechanical Engrs. Proc.*, 179 pt.3A (1964/65) p.24-38. il.

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Automatic train operation on Swiss Federal Railways. K. von Meyenburg. *Instn. of Mechanical Engrs. Proc.*, 179 pt.3A (1964/65) p.62-8. il.

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Changeover of electric traction voltage: fully interlocked Indian system at Igatpuri. *Railway Gaz.*, 121 (2 Apr 65) p.284-6. il.

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Improving transport at Dusseldorf: railway service scheme costing £3,500,000 to speed suburban traffic and reduce street congestion. *Railway Gaz.*, 121 (5 Mar 65) p.191. il.

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Electric railway traction engineering instructions: theoretical and practical course run by Imperial College of Science in conjunction with British Railways Board. *Railway Gaz.*, 121 (7 May 65) p.361-2. il.

RAILWAYS, Electric, Electrical equipment, Copper

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RAILWAYS, Electric, Lucerne-Engelberg

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Railway of the future? B. J. Hurren. *Railway Magazine*, 111 (Oct 65) p.562-3. il.

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New Haven commuter service: consulting engineers report on the operation of local trains by an independent company. *Railway Gaz.*, 121 (2 Jul 65) p.537-40. il.

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- RIVERS**, Floods, Control, Fenlands
Fenland flood protection. K. C. Noble. *Agriculture*, 72 (Apr 65) p.171-5. il.
- RIVERS**, Flow, Control
Related Headings:
RESERVOIRS (Regulating)
- RIVERS**, Pollution
'Formidable' river problems in S. Lancs and N.E. Cheshire. *Surveyor*, 126 (28 Aug 65) p.23-4
Mersey River Board reports on...trade effluents & research. *Effluent & Water Treatment J.*, 4 (Dec 64) p.593
Solway River Purification Board reports on quality of river water. *Effluent & Water Treatment J.*, 5 (Apr 65) p.229
Tighter control reveals greater pollution [Nene River Board] *Water & Waste Treatment*, 10 (Nov/Dec 65) p.524-5. il.
Trade effluent treatment is crux of Merseyside's problem. *Water & Waste Treatment*, 10 (Sep/Oct 65) p.463+
- RIVERS**, Pollution, Coal cleaning. See **COAL**, Cleaning, River pollution
- RIVERS**, Pollution, Effluents, Boats. See **BOATS**, Effluents, River pollution
- RIVERS**, Pollution, Law
Pollution prevention and the law. R. E. Woodward. *Inst. of Sewage Purification J. & Proc.* pt.5 (1965) p.427-34
- RIVERS**, Regulation, Reservoirs
Short cut in flood routing. Y. Peter. *Water Power*, 17 (May 65) p.182+. il.
- RIVERS**, Siltation, Weirs
Accretion upstream of a weir. G. H. Lean. *Civil Engng. & Public Works Rev.*, 60 (Jan 65) p.83-6. il.
- RIVERS**, Steep, Flow, Measurement
Some problems concerning flow measurement in steep rivers. A. J. M. Harrison. *J. of Instn. of Water Engrs.*, 19 (Aug 65) p.469-77. il.
- RIVERS**, Surfaces, Scopes, Backwater, Calculations
Backwater curves in rivers: a simple method for computer calculation. J. Stebbings. *J. of Instn. of Water Engrs.*, 19 (May 65) p.239-44. il. refs.
- RIVERS**, Water extraction. See **WATER**, Extraction, Rivers
- RIVERS**, Water resources
Minimum acceptable flow. A. G. Boulton. *J. of Instn. of Water Engrs.*, 19 (Feb 65) p.15-18. il. refs.
- RIVETING**, Hand tools, Pneumatic
Aydel Chobert riveting system. *Engineering*, 199 (11 Jun 65) p.766-7. il.
- RIVETING**, Machines
Wobble-action riveter [Tammel process] *Machinery Lloyd* (Overseas ed.) 37 (5 Jun 65) p.35-6. il.
- ROAD ADHESION**, Tyres, Motor cars. See **MOTOR CARS**, Tyres, Road adhesion

ROAD RESEARCH LABORATORY

R.R.L. to the Ministry of Transport. Roads & Road Construction, 42 (Dec 64) p.395-6

ROAD ROLLERS, Diesel

Aveling-Barford master Pavior series GNT: GNS: GNR road rollers. Muck Shifter, 23 (Aug 65) p.41-2. il.

New range of heavy road rollers: Aveling-Barford Master Pavior powered by diesels. Engine Design & Applications, 1 (Dec 64) p.10-13. il.

ROAD TANKERS. See TANKERS, Road

ROAD TANKERS, Transport, Alumina powders. See POWDERS, Alumina, Transport, Tankers, Road

ROAD TANKERS, Transport, Liquid oxygen. See OXYGEN, Liquid, Transport, Road tankers

ROAD TESTS, A.C. Cobra cars. See MOTOR CARS, Types, A.C. Cobra, Road tests

ROAD TESTS, A.J.S. Sapphire Ninety motor cycles. See

ROAD TESTS, A.J.S. 31 CSR motor cycles. See MOTOR CYCLES, Types, A.J.S. 31 CSR, Road tests

MOTOR CYCLES, Types, A.J.S. Sapphire Ninety, Road tests

ROAD TESTS, Albion Super Clydesdale commercial vehicles. See VEHICLES, Commercial, Types, Albion Super Clydesdale, Road tests

ROAD TESTS, Alfa Romeo Giulia SS cars. See MOTOR CARS, Types, Alfa Romeo Giulia SS, Road tests

ROAD TESTS, Alvis TE21S Series 4 cars. See MOTOR CARS, Types, Alvis TE21S Series 4, Road tests

ROAD TESTS, Aston Martin DB5 cars. See MOTOR CARS, Types, Aston Martin DB5, Road tests

ROAD TESTS, Austin 1800 de luxe motor cars. See MOTOR CARS, Types, Austin 1800 de luxe, Road tests

ROAD TESTS, Austin FJ 5-ton lorries. See LORRIES, Types, Austin FJ 5-ton, Road tests

ROAD TESTS, Austin J4 vans. See VANS, Types, Austin J4, Road tests

ROAD TESTS, Austin Mini Cooper cars. See MOTOR CARS, Types, Austin Mini Cooper, Road tests

ROAD TESTS, Austin Mini Cooper Hydroelastic cars. See MOTOR CARS, Types, Austin Mini Cooper Hydroelastic, Road tests

ROAD TESTS, B.M.C. FJ 5-ton lorries. See LORRIES, Types, B.M.C. FJ 5-ton, Road tests

ROAD TESTS, B.M.W. 1800 TI cars. See MOTOR CARS, Types, B.M.W. 1800 TI, Road tests

ROAD TESTS, B.S.A. A65L Lightning 654 cc motor cycles. See MOTOR CYCLES, Types, B.S.A. A65L Lightning 654 cc, Road tests

ROAD TESTS, B.S.A. D7 "Bantam Super" motor cycles. See MOTOR CYCLES, Types, B.S.A. D7 "Bantam Super" Road tests

ROAD TESTS, B.S.A. Sports Star motor cycles. See MOTOR CYCLES, Types, B.S.A. Sports Star, Road tests

ROAD TESTS, Bedford Beagle estate cars. See ESTATE CARS, Types, Bedford Beagle, Road tests

ROAD TESTS, Bedford CA MK2 vans. See VANS, Types, Bedford CA MK2, Road tests

ROAD TESTS, Bedford CAL (Diesel) Vans. See VANS, Types, Bedford CAL (Diesel) Road tests

ROAD TESTS, Bedford HAV vans. See VANS, Types, Bedford HAV, Road tests

ROAD TESTS, Bond Equipe GT4S cars. See MOTOR CARS, Types, Bond Equipe GT4S, Road tests

ROAD TESTS, Buick Riviera cars. See MOTOR CARS, Types, Buick Riviera, Road tests

ROAD TESTS, Cars. See MOTOR CARS, Road tests

ROAD TESTS, Chevrolet Chevelle Malibu cars. See MOTOR CARS, Types, Chevrolet Chevelle Malibu, Road tests

ROAD TESTS, Citroen (DS21) Pallas M cars. See MOTOR CARS, Types, Citroen (DS21) Pallas M, Road tests

ROAD TESTS, Citroen ID Super cars. See MOTOR CARS, Types, Citroen ID Super, Road tests

ROAD TESTS, Commer Maxiload lorries. See LORRIES, Types, Commer Maxiload, Road tests

ROAD TESTS, Commercial vehicles. See VEHICLES, Commercial, Road tests

ROAD TESTS, Daf Daffodil LE cars. See MOTOR CARS, Types, Daf Daffodil LE, Road tests

ROAD TESTS, Daihatsu Compagno Berlina cars. See MOTOR CARS, Types, Daihatsu Compagno Berlina, Road tests

ROAD TESTS, Dennis Maxim 16 ton lorries. See LORRIES, Types, Dennis Maxim 16 ton, Road tests

ROAD TESTS, Estate cars. See ESTATE CARS, Road tests

ROAD TESTS, Fiat 1300 cars. See MOTOR CARS, Types, Fiat 1300, Road tests

ROAD TESTS, Fiat 1500 cars. See MOTOR CARS, Types, Fiat 1500, Road tests

ROAD TESTS, Foden 8AE7/32-Dyson articulated vehicles. See MOTOR VEHICLES, Articulated, Types, Foden 8AE7-Dyson, Road tests

ROAD TESTS, Foden Twin-Load articulated vehicles. See MOTOR VEHICLES, Articulated, Types, Foden Twin-Load, Road tests

ROAD TESTS, Ford Anglia 1200 estate cars. See ESTATE CARS, Types, Ford Anglia 1200, Road tests

ROAD TESTS, Ford Anglia cars. See MOTOR CARS, Types, Ford Anglia, Road tests

ROAD TESTS, Ford Consul Capri GT cars. See MOTOR CARS, Types, Ford Consul Capri GT, Road tests

ROAD TESTS, Ford Consul Corsair GT cars. See MOTOR CARS, Types, Ford Consul Corsair GT, Road tests

ROAD TESTS, Ford Consul Corsair V-4 de luxe cars. See MOTOR CARS, Types, Ford Consul Corsair V-4 de luxe, Road tests

ROAD TESTS, Ford Consul Cortina 1200 cars. See MOTOR CARS, Types, Ford Consul Cortina 1200, Road tests

ROAD TESTS, Ford Consul Cortina GT motor cars. See MOTOR CARS, Types, Ford Consul Cortina GT, Road tests

ROAD TESTS, Ford Consul Cortina Super 1500 cars. See MOTOR CARS, Types, Ford Consul Cortina Super 1500, Road tests

ROAD TESTS, Ford D 300 lorries. See LORRIES, Types, Ford D 300

ROAD TESTS, Ford D 800-B.T.C. articulated vehicles. See MOTOR VEHICLES, Articulated, Types, Ford D 800 B.T.C. Road tests

ROAD TESTS, Ford D800 lorries. See LORRIES, Types, Ford D800, Road tests

ROAD TESTS, Ford Taunus 20 M cars. See MOTOR CARS, Types, Ford Taunus 20 M, Road tests

ROAD TESTS, Ford Transit vans. See VANS, Types, Ford Transit, Road tests

ROAD TESTS, Gordon-Keeble GKI cars. See MOTOR CARS, Types, Gordon-Keeble GKI, Road tests

ROAD TESTS, Hillman Super Imp cars. See MOTOR CARS, Types, Hillman Super Imp, Road tests

ROAD TESTS, Honda C95 motor cycles. See MOTOR CYCLES, Types, Honda C95, Road tests

ROAD TESTS, Honda CB 77 Super Sport motor cycles. See MOTOR CYCLES, Types, Honda CB 77 Super Sport, Road tests

ROAD TESTS, Honda CB 160 Sports motor cycles. See MOTOR CYCLES, Types, Honda CB 160 Sports, Road tests

ROAD TESTS, Humber Imperial cars. See MOTOR CARS, Types, Humber Imperial, Road tests

ROAD TESTS, Jaguar E-type 4.2 litres cars. See MOTOR CARS, Types, Jaguar E-type 4.2 litres, Road tests

ROAD TESTS, Jaguar Mk. 10 4.2 cars. See MOTOR CARS, Types, Jaguar Mk. 10 4.2 litres, Road tests

- ROAD TESTS, Jaguar Mk.10 4.2 litre automatic motor cars. See MOTOR CARS, Types, Jaguar Mk.10 4.2 litres automatic, Road tests
- ROAD TESTS, Jaguar S-type cars. See MOTOR CARS, Types, Jaguar S-type, Road tests
- ROAD TESTS, Jensen C-V8 cars. See MOTOR CARS, Types, Jensen, C-V8, Road tests
- ROAD TESTS, Lambretta J125 scooters. See SCOOTERS, Types, Lambretta J125, Road tests
- ROAD TESTS, Lancia Flaminia Coupe 3B cars. See MOTOR CARS, Types, Lancia Flaminia Coupe 3B, Road tests
- ROAD TESTS, Lancia Flavia Zagato Sport cars. See MOTOR CARS, Types, Lancia Flavia Zagato Sport, Road tests
- ROAD TESTS, Leyland 90 vans. See VANS, Types, Leyland 90, Road tests
- ROAD TESTS, Leyland Bonneted Super Comet commercial vehicles. See VEHICLES, Commercial, Types, Leyland Bonneted Super Comet, Road tests
- ROAD TESTS, Leyland Freightline Beaver/Scammell articulated vehicles. See MOTOR VEHICLES, Articulated, Types, Leyland Freightline Beaver/Scammell, Road tests
- ROAD TESTS, M.G. M.G.B. 1800 cars. See MOTOR CARS, Types, M.G. M.G.B. 1800, Road tests
- ROAD TESTS, M.G., Magnette Mk.4 Automatic cars. See MOTOR CARS, Types, M.G. Magnette Mk.4 Automatic, Road tests
- ROAD TESTS, Mack/Northern articulated vehicles. See MOTOR VEHICLES, Articulated, Types, Mack/Northern, Road tests
- ROAD TESTS, Magirus 235D 22FL lorries. See LORRIES, Types, Magirus 235D 22FL, Road tests
- ROAD TESTS, Marcos 1800 cars. See MOTOR CARS, Types, Marcos 1800, Road tests
- ROAD TESTS, Matchless G12 de luxe motor cycles. See MOTOR CYCLES, Types, Matchless G12 de luxe, Road tests
- ROAD TESTS, Matchless G15 CSR motor cycles. See MOTOR CYCLES, Types, Matchless G15 CSR, Road tests
- ROAD TESTS, Mercedes-Benz 220b cars. See MOTOR CARS, Types, Mercedes-Benz 220b, Road tests
- ROAD TESTS, Mercedes-Benz 220 SEb cars. See MOTOR CARS, Types, Mercedes-Benz, 220 SEb, Road tests
- ROAD TESTS, Mercedes-Benz 230SL cars. See MOTOR CARS, Types, Mercedes-Benz 230SL Automatic, Road tests
- ROAD TESTS, Morris FJ 7-ton lorries. See LORRIES, Types, Morris FJ 7-ton, Road tests
- ROAD TESTS, Morris Oxford 6 Traveller estate cars. See ESTATE CARS, Types, Morris Oxford 6 Traveller, Road tests
- ROAD TESTS, N.S.U. Prinz 1000 LS cars. See MOTOR CARS, Types, N.S.U. Prinz 1000 LS, Road tests
- ROAD TESTS, N.S.U. Spider Wankel motor cars. See MOTOR CARS, Types, N.S.U. Spider Wankel, Road tests
- ROAD TESTS, Opel Diplomat cars. See MOTOR CARS, Types, Opel Diplomat, Road tests
- ROAD TESTS, Peugeot 404 C cars. See MOTOR CARS, Types, Peugeot 404 C, Road tests
- ROAD TESTS, Peugeot 404 diesel cars. See MOTOR CARS, Types, Peugeot 404 diesel, Road tests
- ROAD TESTS, Peugeot 404 KF2 cars. See MOTOR CARS, Types, Peugeot 404 KF2, Road tests
- ROAD TESTS, Peugeot 404 L estate cars. See ESTATE CARS, Types, Peugeot 404 L, Road tests
- ROAD TESTS, Pontiac Parisienne motor cars. See MOTOR CARS, Types, Pontiac Parisienne, Road tests
- ROAD TESTS, Porsche 912 cars. See MOTOR CARS, Types, Porsche 912, Road tests
- ROAD TESTS, Puch SGS motor cycles. See MOTOR CYCLES, Types, Puch SGS, Road tests
- ROAD TESTS, Reliant Scimitar cars. See MOTOR CARS, Types, Reliant Scimitar, Road tests
- ROAD TESTS, Renault R4L estate cars. See ESTATE CARS, Types, Renault R4L, Road tests
- ROAD TESTS, Renault R8 1100 cars. See MOTOR CARS, Types, Renault R8 1100, Road tests
- ROAD TESTS, Renault R8 Gordini cars. See MOTOR CARS, Types, Renault R8 Gordini, Road tests
- ROAD TESTS, Renault Caravelle cars. See MOTOR CARS, Types, Renault Caravelle, Road tests
- ROAD TESTS, Riley Kestrel cars. See MOTOR CARS, Types, Riley Kestrel, Road tests
- ROAD TESTS, Rover B.R.M. cars. See MOTOR CARS, Types, Rover B.R.M., Road tests
- ROAD TESTS, Royal Enfield Continental motor cycles. See MOTOR CYCLES, Types, Royal Enfield "Continental", Road tests
- ROAD TESTS, Saab Sport cars. See MOTOR CARS, Types, Saab Sport, Road tests
- ROAD TESTS, Scammell Townsman 3-ton articulated vehicles. See MOTOR VEHICLES, Articulated, Types, Scammell Townsman 3-ton, Road tests
- ROAD TESTS, Seddon 13 Four commercial vehicles. See VEHICLES, Commercial, Types, Seddon 13 Four, Road tests
- ROAD TESTS, Sidecars, motor cycles. See MOTOR CYCLES, Sidecars, Road tests
- ROAD TESTS, Simca 1500 GL estate cars. See ESTATE CARS, Types, Simca 1500 GL, Road tests
- ROAD TESTS, Singer Chamois cars. See MOTOR CARS, Types, Singer Chamois, Road tests
- ROAD TESTS, Singer Vogue cars. See MOTOR CARS, Types, Singer Vogue, Road tests
- ROAD TESTS, Singer Vogue MK 3 estate cars. See ESTATE CARS, Types, Singer Vogue MK 3, Road tests
- ROAD TESTS, Skoda 1000 MB cars. See MOTOR CARS, Types, Skoda 1000 MB, Road tests
- ROAD TESTS, Standard-Triumph 2000 cars. See MOTOR CARS, Types, Standard-Triumph 2000, Road tests
- ROAD TESTS, Standard-Triumph TR4 cars. See MOTOR CARS, Types, Standard-Triumph TR4, Road tests
- ROAD TESTS, Standard-Triumph TR4A IRS cars. See MOTOR CARS, Types, Standard-Triumph TR4A IRS, Road tests
- ROAD TESTS, Standard-Triumph Vitesse Convertible cars. See MOTOR CARS, Types, Standard-Triumph Vitesse Convertible, Road tests
- ROAD TESTS, Sunbeam Tiger cars. See MOTOR CARS, Types, Sunbeam Tiger, Road tests
- ROAD TESTS, Suzuki T10 motor cycles. See MOTOR CYCLES, Types, Suzuki T10, Road tests
- ROAD TESTS, Vanden Plas Princess 1100, Motor cars. See MOTOR CARS, Types, Vanden Plas Princess 1100, Road tests
- ROAD TESTS, Vauxhall VX 4/90 cars. See MOTOR CARS, Types, Vauxhall VX 4/90, Road tests
- ROAD TESTS, Vauxhall Cresta cars. See MOTOR CARS, Types, Vauxhall Cresta, Road tests
- ROAD TESTS, Vauxhall Cresta de Luxe cars. See MOTOR CARS, Types, Vauxhall Cresta de Luxe, Road tests
- ROAD TESTS, Vauxhall Cresta de Luxe Powerglide cars. See MOTOR CARS, Types, Vauxhall Cresta de Luxe Powerglide, Road tests
- ROAD TESTS, Vauxhall Velox cars. See MOTOR CARS, Types, Vauxhall Velox, Road tests
- ROAD TESTS, Vauxhall Victor 101 de luxe cars. See MOTOR CARS, Types, Vauxhall Victor 101 de luxe, Road tests
- ROAD TESTS, Vauxhall Victor 101 estate cars. See ESTATE CARS, Types, Vauxhall Victor 101, Road tests
- ROAD TESTS, Vauxhall Viva SL90 cars. See MOTOR CARS, Types, Vauxhall Viva SL90, Road tests

ROAD TESTS, Velocette Venom Clubman motor cycles. See MOTOR CYCLES, Types, Velocette Venom Clubman, Road tests

ROAD TESTS, Volvo 131 cars. See MOTOR CARS, Types, Volvo 131, Road tests

ROAD TESTS, Wolseley 6/110 Mk.2 Automatic cars. See MOTOR CARS, Types, Wolseley 6/110 Mk.2 Automatic, Road tests

ROAD TESTS, Wolseley 1100 cars. See MOTOR CARS, Types, Wolseley 1100, Road tests

ROAD TESTS, Yamaha YA6 motor cycles. See MOTOR CYCLES, Types, Yamaha YA6, Road tests

ROAD TESTS, Yamaha YDS3 motor cycles. See MOTOR CYCLES, Types, Yamaha YDS3, Road tests

ROAD VIBRATION MACHINES, Stiffness testing, Bitumen, Surface dressing, Roads. See ROADS, Surfaces, Dressing, Bitumen, Stiffness, Testing, Road vibration machines

ROADHEADS, Coal mining. See COAL, Mining, Roadheads

ROADS

Related Headings:

- FLYOVERS
- FOOTWAYS
- MOTORWAYS
- STREETS
- TRAFFIC ENGINEERING

ROADS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Particular localities

Great Britain

South Eastern England

- Basildon*
- Brentwood*
- Stevenage*
- High Wycombe*
- Ightham*
- Sevenoaks*
- Hampshire*
- Havant*

Western England

- Gloucestershire*
- Somerset*
- Keynsham*

Devon

Midlands

- Alconbury*
- Oxfordshire*
- Worcestershire*
- Worcester*
- Hawford*
- Rubery*

Burton-on-Trent

Wolverhampton

Birmingham

Coventry

Nottinghamshire

Newark

Derbyshire

Northern England

- Ferrybridge*
- Darlington*
- South Shields*
- Northumberland*

Wales

South Wales

Scotland

Glasgow

Bonnybridge

Larbert

Northern Ireland

ROADS—SUBHEADINGS—Synopsis—cont.

North America

Canada

British Columbia

U.S.A.

California

Australia

New South Wales

Research

Engineers

Information services

Properties

Elasticity

Technical activities

Planning

Design

Construction, Equipment

Pavers

Maintenance

Heating

Cleansing

Litter

Snow clearance

Materials

Stone

Concrete

Pulverised fuel ash

Soil

Soil mechanics

Soil—Cement

Structural elements

Bases

Surfaces

Embankments

Plan & design elements

Curves

Intersections

Roundabouts

Lay-bys

Signs

Pedestrian crossings

Markings

Reflectors

Fences

Types of roads

Flexible

Stabilised soil

Elevated

Road use

Town & country planning

Town planning

Transport

Haulage

Traffic

Safety

Accidents

Speed limits

Particular environments

Holiday resorts

ROADS, Accidents

Methods available to reduce the number of road casualties.

R. J. Smeed. *Traffic Engng. & Control*, 6 (Dec 64) p.509+. il.

ROADS, Accidents—cont.

Scandal in Tabernacle Street—bleakest spot of all: 22 accidents in 5 years. Motor (10 Nov 65) p.17-19. il.

ROADS, Alconbury

Alconbury by-pass open to traffic. Contract J., 202 (24 Dec 64) p.1053-4. il.

ROADS, Approach, Bridges. See **BRIDGES, Approach roads****ROADS, Bases, Density, Measurement, Gamma radiation**

Nuclear apparatus for density & moisture measurements: study of factors affecting accuracy. W. A. Lewis. Roads & Road Construction, 43 (Feb 65) p.37-42. il. refs.

ROADS, Bases, Granular material

Performance of granular base materials under traffic. G. D. Grainger. Roads & Road Construction, 43 (Aug 65) p.243-7. il.

ROADS, Bases, Moisture, Measurement, Neutrons, Fast

Nuclear apparatus for density & moisture measurements: study of factors affecting accuracy. W. A. Lewis. Roads & Road Construction, 43 (Feb 65) p.37-42. il. refs.

ROADS, Bases, Tar—Gravel

Tamworth & after. S. A. Stewart. Roads & Road Construction, 43 (Aug 65) p.254-5

ROADS, Basildon

Concrete road and bridge construction in Basildon New Town. T. F. O'Connor. Surveyor, 125 (19 Jun 65) p.29+. il.

ROADS, Birmingham

Birmingham inner Ring Road: Masshouse section completed. Contract J., 206 (15 Jul 65) p.293+. il.

ROADS, Bonnybridge

Bonnybridge & Larbert diversion. Roads & Road Construction, 43 (Nov 65) p.357-8. il.

ROADS, Brentwood

Brentwood A12 by-pass open four months ahead of schedule: another stage of London-Great Yarmouth trunk road dualling completed. Surveyor, 126 (4 Dec 65) p.19-21. Brentwood by-pass completed: over 1 million cu. yd. of earth excavated. Contract J., 208 (2 Dec 65) p.605-6. il. Brentwood's 5-mile by-pass completed in 20 months. Municipal Engng., 142 (3 Dec 65) p.2525. il.

Concrete carriageway construction on Brentwood By-pass. Highways & Bridges & Engng. Works, 33 (14 Jul 65) p.12-13. il.

Good progress on the Brentwood by-pass: new techniques help speed construction of A12 road scheme. Surveyor, 126 (17 Jul 65) p.17-19. il.

Rapid concreting for Brentwood by-pass: carriageway nears completion. Contract J., 206 (15 Jul 65) p.285-6. il.

ROADS, British Columbia

Highway progress in British Columbia. Highways & Bridges & Engng. Works, 33 (3 Mar 65) p.8+. il.

ROADS, Burton-on-Trent

Burton-on-Trent by-pass under construction. Contract J., 208 (25 Nov 65) p.477+. il.

ROADS, California

U.S. highway—route 466 becomes a lateral road. Muck Shifter, 23 (Sep 65) p.53-4. il.

ROADS, Cleansing

Cardiff cuts street sweeping costs by 50 per cent. Public Cleansing, 55 (Mar 65) p.129-33. il.

ROADS, Cleansing, Bins

Liverpool street cleansing scheme. Municipal J., 73 (11 Jun 65) p.2036-7. il.

ROADS, Cleansing, Vehicles

Mechanised street cleansing—the answer to labour shortages. F. L. Stirrup. Municipal Engng., 142 (26 Feb 65) p.429+. il.

Scottish centre discuss mechanical street cleansing: summary of "Mechanical street cleansing—a review". R. R. Adam. Public Cleansing, 55 (Feb 65) p.119-24

ROADS, Cleansing, Vehicles, Brushes

Why wire? R. C. Woodward. Public Cleansing, 55 (Oct 65) p.571-4

ROADS, Concrete, Construction, Equipment

Concrete road base laid by asphalt paver: a feature of the Sevenoaks bypass being built in Kent is the first use in Britain of a German-built asphalt paving machine [German ABG "Titan"] Engineering, 200 (10 Dec 65) p.745-6. il.

Concrete road construction. A. Stroud. Muck Shifter, 23 (Apr 65) p.62+. il.

Continental paving practice: a report of concrete road construction & developments in Europe. Highways & Bridges & Engng. Works, 33 (3 Feb 65) suppl. il.

New equipment for concrete road construction. Concrete & Constructional Engng., 60 (Jan 65) p.27-33. il.

Welded equipment for road-making [Sir Alfred McAlpine & Son Ltd.] Welder, 34 (Jan/Mar 65) p.3-5. il.

ROADS, Concrete, Nigeria

Concrete roads in Nigeria. C. C. Agbim. Concrete & Constructional Engng., 60 (Aug 65) p.313-21. il.

ROADS, Concrete, Testing, Vibrations

Thickness and quality of cemented surfacings and bases: measuring by a non-destructive surface wave method.

R. Jones & H. C. Mayhew. Civil Engng. & Public Works Rev., 60 (Apr 65) p.523+. il. refs.

ROADS, Construction, Equipment

Roads & road making: selecting plant. Muck Shifter, 23 (Apr 65) p.51+. il.

ROADS, Construction, Equipment

Related Headings:

ROAD ROLLERS

ROADS, Construction, Equipment, U.S.A.

American roadmaking plant. A. Codd. Muck Shifter, 23 (Apr 65) p.82

ROADS, Coventry

Coventry continues redevelopment work: expansion of road and main drainage schemes. Contract J., 208 (25 Nov 65) p.482-4. il.

ROADS, Curves, Signs

Experimental warning signs for bends. K. S. Rutley. Traffic Engng. & Control, 7 (Aug 65) p.268-71. il. refs.

ROADS, Darlington

Darlington by-pass completed. Contract J., 205 (13 May 65) p.183-4. il.

Darlington by-pass motorway opened. Highways & Bridges & Engng. Works, 33 (19 May 65) p.12+. il.

ROADS, Derbyshire

Sandiacre—Stapleford by-pass opened. Contract J., 202 (31 Dec 64) p.1133+. il.

ROADS, Design

Better road design for greater safety can save 1,000 lives a year. J. J. Leeming. Municipal Engng., 142 (16 Apr 65) p.795

Design standards for roads in urban areas. J. L. Paisley. Traffic Engng. & Control, 7 (Jun 65) p.125-30. il. refs.

ROADS, Design, Computers

Greater use of computers in engineering calculations. J. M. Petrie. Municipal Engng., 142 (20 Aug 65) suppl. p.1743-4. il.

ROADS, Devon

Devon road & bridge works. Roads & Road Construction, 42 (Dec 64) p.415-17. il.

Devon road developments. H. Criswell. Roads & Road Construction, 43 (Sep 65) p.290-1

ROADS, Elasticity, Measurements, Vibrations

Analysis of waves in a two-layer composite plate and its application to surface wave propagation experiments on roads. R. Jones & E. N. Thrower. J. of Sound & Vibration, 2 (Jul 65) p.328-35. il. refs.

Computation of the dispersion of elastic waves in layered media. E. N. Thrower. J. of Sound & Vibration, 2 (Jul 65) p.210-26. il. refs.

Effect of interfacial contact on the propagation of flexural waves along a composite plate. R. Jones & E. N. Thrower. J. of Sound & Vibration, 2 (Apr 65) p.167-74. il. refs.

ROADS, Elevated

- Carnoustie Street Bridge—development of the design. W. A. Fairhurst. *Surveyor*, 125 (12 Jun 65) p.29-32. il.
 Elevated roads—a possible solution in urban areas. Municipal Engng., 142 (16 Apr 65) p.781+. il.
 4,200ft long Mancunian Way. Civil Engng. & Public Works Rev., 60 (Jan 65) p.75+. il.
 Mancunian Way, Manchester. *Roads & Road Construction*, 43 (Jan 65) p.14-15. il.

ROADS, Elevated

- Related Headings:
 FLYOVERS
 MOTORWAYS, Elevated

ROADS, Embankments, Fill, Pulverised fuel ash

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- ROCKETS**
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ASTRONAUTICS, Vehicles
PROPELLANTS
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ROLL FORMING, Motor car body components. See MOTOR

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Iron, Films. See FILMS, Iron-Nickel, Electrodeposition, Rolled copper substrates

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- ROTORS, Injection, Induction electrical machinery. See ELECTRICAL MACHINERY, Induction, Rotor injection
- ROTORS, Journal bearings. See BEARINGS, Journal, Rotors
- ROTORS, Pumps, Hydraulic machinery. See HYDRAULIC MACHINERY, Pumps, Rotors
- ROTORS, Seals, Honeycomb**
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- ROTORS, Steel-Chromium-Molybdenum-Nickel, Steam turbines. See STEAM, Turbines, Rotors, Steel-Chromium-Molybdenum-Nickel
- ROTORS, Steel-Chromium-Molybdenum-Vanadium, Steam turbines. See STEAM, Turbines, Rotors, Steel-Chromium-Molybdenum-Vanadium
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PORTS, Rotterdam
RAILWAYS, Underground, Rotterdam
- ROTTING, Belts, Conveyors, Coal mining. See COAL, Mining, Conveyors, Belts, Rotting
- ROUGHNESS, Machined surfaces. See SURFACES, Machined, Roughness
- ROUGHNESS, Surfaces, Diamond turning. See DIAMOND TURNING, Surface roughness
- ROUGHNESS, Surfaces, Effect on electrolysis, Platinum electrodes. See ELECTRODES, Platinum, Electrolysis, Effect of surface roughness
- ROUGHNESS, Surfaces, Effect on reduction, Flowing ferricyanide solutions, Nickel cathodes. See CATHODES, Nickel, Ferricyanide solutions, Flowing, Reduction, Effect of surface roughness
- ROUGHNESS, Surfaces, Paper, Printing. See PRINTING, Paper, Surfaces, Roughness
- ROUMANIA. See RUMANIA
- ROUND HOUSINGS, Pigs. See PIGS, Housings, Round
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- ROVER 3-LITRE MK 3 CARS. See MOTOR CARS, Types, Rover 3-litre mk 3
- ROVER CARS. See MOTOR CARS, Types, Rover
- ROVER B.R.M. MOTOR CARS. See MOTOR CARS, Types, Rover B.R.M.
- ROVER T 3 COUPÉ CARS. See MOTOR CARS, Types, Rover T 3 coupé
- ROWCON SYSTEM, Prefabricated houses. See HOUSES, Prefabricated, Rowcon system
- ROYAL AIR FORCE, Air Transport Auxiliary**
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MOTOR CYCLES, Types, Royal Enfield Crusader Sports

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RUBBER

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25 years of progress in rubber technology. F. H. Cotton.

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RUBBER

Related Headings:

EBONITE

LATEX

SILICONES, Rubber

RUBBER-SUBHEADINGS-Synopsis

This synopsis shows, in *italic*, related subheadings which are separated in the alphabetical sequence following.

History

Research

Standards

Physical & chemical aspects

Ageing

Durability

Mechanical properties

Elasticity

Viscoelasticity

Mooney tests

Elongation

Tensile strength

Compression

Hardness

Stiffness

RUBBER-SUBHEADINGS-Synopsis-cont.

Tack

Friction

Abrasion

Permeability

Swelling

Thermal expansion

Dielectric properties

Chemical reactions

Scission

Technical activities

Testing

Manufactures

Vulcanisation

Moulding

Reclamation

Materials

Fillers

Antioxidants

Products

Components

Kinds of rubber

Crude

Cross linked

Isomerised

Synthetic

Applications

Engineering

RUBBER, Abrasion properties, Correlation with tensile strength

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RUBBER, Ageing, Tests

Ageing tests on rubbers, pt.1. J. R. Scott. *Rubber J.*, 147 (Aug 65) p.24-30. il. refs.

Ageing tests on rubbers, pt.2. J. R. Scott. *Rubber J.*, 147 (Sep 65) p.37-40. il. refs.

RUBBER, Antioxidants, N-Isopropyl-N'-phenyl-p-phenyldiamine, Potentiometric titrations, Reagents, Toluene-p-sulphonic acid

Indentation of thin rubber sheets by spherical indentors. phenylenediamine. J. R. Davies. *Analyst*, 90. (Apr 65) p.216-19. refs.

RUBBER, Bearings, Bridges. See BRIDGES, Bearings, Rubber**RUBBER, Belts, Conveyors, Dam construction. See DAMS, Construction, Conveyors, Belts, Rubber****RUBBER, Boots. See BOOTS, Rubber****RUBBER, Chlorinated, Fire retardant paint. See PAINT, Fire retardant, Chlorinated rubber****RUBBER, Components, Specifications**

Specifications for rubber components. D. F. Aitken. *Light Production Engrng.*, 3 (May 65) p.4-7. il.

RUBBER, Compression, Hysteresis losses, Determination, Rolling ball spectrometers

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RUBBER, Coverings, Floors. See FLOORS, Coverings, Rubber**RUBBER, Cross linked, Swelling, Liquids, Free energy changes, Determination, Vapour pressure**

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RUBBER, Crude, Granulated

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RUBBER, Crude, Softened

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RUBBER, Diaphragm punch power presses. See PRESSES, Power (Diaphragm punch)

RUBBER, Dielectric properties

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RUBBER, Dies, Presses, Forming, Brass cups, Tableware. See TABLEWARE, Cups, Brass, Forming, Presses, Dies, Rubber

RUBBER, Durability

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RUBBER, Isomerised

Cis-trans isomerism in polyisoprenes, pt.8: physical properties of cis-trans isomerised rubbers. D. J. Elliott. Instn. of Rubber Industry Trans. & Proc., 41 (Aug 65) p.T180-90. il. refs.

RUBBER, Joints, Pipes. See PIPES, Joints, Rubber

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RUBBER, Permeability, Oils

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RUBBER, Springs. See SPRINGS, Rubber

RUBBER, Springs, Motor cars. See MOTOR CARS, Springs, Rubber

RUBBER, Springs, Motor vehicles. See MOTOR VEHICLES, Springs, Rubber

RUBBER, Springs, Vehicles. See VEHICLES, Springs, Rubber

RUBBER, Standards

SMR: guaranteed standards for NR welcomed. *Rubber Developments*, 18 no.3 (1965) p.93

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RUBBER, Stiffness

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RUBBER, Swelling, Solvents

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RUBBER, Synthetic

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BUTYL RUBBER

EPICHLOROHYDRIN, Rubbers

ETHYLENE-PROPYLENE, Rubber

NEOPRENE

NITROSO RUBBER

POLYALKYLENE SULPHIDE, Rubber

POLYBUTADIENE

POLYBUTENES

POLYISOPRENE

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Thermal expansion and viscoelasticity of rubber in relation to crosslinking and molecular packing. P. Mason. *Polymer*, 5 (Dec 64) p.625-35. il. refs.

RUBBER, Tyres, Railway rolling stock. See ROLLING STOCK (Railways) Tyres, Rubber

RUBBER, Tyres, Rolling stock, Underground railways. See RAILWAYS, Underground, Rolling stock, Tyres, Rubber

RUBBER, Vibration isolators. See VIBRATION ISOLATORS, Rubber

RUBBER, Viscoelasticity, Effect of cross-linking

Thermal expansion and viscoelasticity of rubber in relation to crosslinking and molecular packing. P. Mason. *Polymer*, 5 (Dec 64) p.625-35. il. refs.

RUBBER, Vulcanisation

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RUBBER-POLYSTYRENE. See POLYSTYRENE-RUBBER RUBBER-STYRENE, Copolymers

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See

ROADS, Rubery

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RUGS, Design

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RUHR

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RAILWAYS, Ruhr

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RULING, Machines, Ultrasonics

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See

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RUMFORD, B. Thompson, Count

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RUNNERS, Casting. See **CASTING**, Runners

RUNNERS, Casting, Copper alloys. See **COPPER**, Alloys, Casting, Runners

RUNNERS, Casting, Gunmetal. See **GUNMETAL**, Casting, Runners

RUNNING GEAR, Articulated motor vehicles. See **MOTOR VEHICLES**, Articulated, Running gear

RUNNYMEDE

See

MONUMENTS, Runnymede

RUNWAYS (Aerodromes) Fires, Control, Foam, Equipment

RAF demonstrates new unit for runway foam laying. *Fire*, 58 (Jun 65) p.33+. il.

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Liverpool Airport's new £3 million runway makes progress.

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RUPTURE, High temperature alloys. See **HIGH TEMPERATURE**, Alloys, Rupture

RUPTURE, Modulus of, Compression derivation, Strength, Bricks. See **BRICKS**, Strength, Compression, Derivation, Modulus of rupture

RUPTURE, Tensile, Paper. See **PAPER**, Rupture, Tensile

RURAL BUSES. See **BUSES**, Rural

RURAL SEWAGE. See **SEWAGE**, Rural

RUSA OIL. See **PALMAROSA OIL**

RUSK, Meat products. See **MEAT**, Products, Fillers, Rusk

RUSSIA

See

ARCHITECTURE, Russia

ASTRONAUTICS, Research, Russia

BUILDINGS, Concrete, Russia

BUSES, Transport, Russia

CERAMICS, Industry, Russia

CERAMICS, Structural, Manufactures, Gas, Natural, Russia

CIVIL ENGINEERING, Russia

COAL, Industry, Russia

COAL, Research, Russia

DIESEL ENGINES, Russia

FISHING, Industry, Russia

FISHING, Vessels, Russia

FLYING, Pilots, Russia

FOOD, Processing, Russia

FOUNDRY PRACTICE, Russia

GAS, Natural, Russia

GAS (Town) Russia

GLASS FIBRE, Manufactures, Russia

HOUSING, Prefabrication, Russia

HOUSING, Russia

HYDROELECTRIC POWER, Pasvik River

LORRIES, Russia

MACHINE TOOLS, Russia

MACHINING, Measurements, Russia

MINING, Research, Russia

PATENTS, Russia

PLASTICS, Manufactures, Russia

POLYMERS, Research, Russia

PORTS, Leningrad

POWER STATIONS, Russia

POWER TRANSMISSION, Russia

RUSSIA

See—cont.

PRINTING, Inks, Research, Russia

PRINTING, Paper, Research, Russia

RADIO, Transmitters, Russia

RAILWAYS, Electrification, Russia

REFRACTORIES, Production, Russia

RELIGIOUS BUILDINGS, Russia

RHENIUM, Engineering materials, Russia

ROADS, Transport, Russia

ROCKETS, Tests, Russia

ROLLING STOCK (Railways) Tractive resistance, Russia

SANITARY ENGINEERING, Russia

SHELLS, Sandwich, Russia

STEEL, Casting, Continuous, Russia

STEEL, Stainless, Production, Russia

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RUTILE, Flotation, Beach sand

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RYEGRASS, Silage. See **SILAGE**, Ryegrass

S.B.2 SYSTEM, Prefabricated houses. See **HOUSES**, Prefabricated, S.B.2 system

S.H.F.

Related Headings:

X-BAND

S-MATRIX, Electrical networks. See **NETWORKS**, Electrical, Scattering matrix

S-METERS, Radio receivers. See **RADIO**, Receivers, S-meters

S.S.B. RADIO. See **RADIO**, Single sideband

SAAB CARS. See **MOTOR CARS**, Types, Saab

SAAB DRAKEN AIRCRAFT. See **AIRCRAFT**, Military, Types, Saab Draken

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Crisps, Packaging, Sachets

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SAFETY, Chemical cleaning. See **CLEANING, Chemical, Safety**

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SALT

Related Headings:

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SATELLITES, Artificial—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Orbits

Technical activities

Manufactures

Welding

Launching

Tracking

Fuels

Materials

Metals

Parts & equipment

Components

Power supplies

Communication systems

Aerials

Launchers

Types

Balloon

By function

Communication

Meteorology

Observation

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SATURABLE REACTORS. See REACTORS, Electric, Saturable**SATURATED CLAY, Soil. See SOIL, Clay, Saturated****SATURATED STEAM. See STEAM, Saturated****SATURATION MAGNETISATION. See MAGNETISATION, Saturation****SAUCES, Horseradish, Manufactures, Equipment**

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SCALING, Nickel. See NICKEL, Scaling

SCALING, Nickel-Cobalt. See COBALT-NICKEL, Scaling

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SCHOOLS, Auditoriums

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SCHOOLS, Classrooms, Windows, Sills

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SETTING, Infra-red, Corespun yarns, Lycra fabrics. See FABRICS, Lycra, Corespun yarn, Setting, Infra-red

SETTING, Knitted fabrics. See FABRICS, Knitted, Setting

SETTING, Lasting, Chrome leather, Uppers, Shoes. See SHOES, Uppers, Leather, Chrome, Lasting, Setting

SETTING, Moulding, Wood. See WOOD, Moulding, Setting

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SEVENOAKS

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ROADS, Sevenoaks

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SEWAGE

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SHAFTS

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SLABS, Concrete, Rectangular (I-section beam) Shear lag

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Stiffened, Buckling, Shear

SHEAR LOADING, Panels, Structures, Aircraft. See

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SHEAR STRENGTH, Adhesives, Joints, Metals, Pipes. See

PIPES, Metal, Joints, Adhesives, Shear strength

SHEAR STRESS, Critical, Hexagonal close packed alloys. See

ALLOYS, Hexagonal close packed, Critical shear stress

SHEAR STRESS-STRAIN, Double gliding, Single crystals,

Niobium. See NIOBIUM, Crystals, Single, Gliding,

Double, Shear stress-strain

SHEAR STRESSES, Aluminium alloy fibre-Epoxy resin.

See EPOXY RESIN-ALUMINIUM ALLOY FIBRE, Shear
stresses

SHEAR STRESSES, Creep, Lead, Pipes. See PIPES, Lead,
Creep, Shear stresses

SHEAR STRESSES, Fatigue, Single crystals, Zinc. See ZINC,
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SHEAR TESTS, Edge restrained reinforced concrete, Slabs.

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Shear tests

SHEAR TESTS, Mixes, Concrete. See CONCRETE, Mixes,
Shear tests

SHEAR TESTS, Paste, Cement. See CEMENT, Paste,
Shear tests

SHEAR TESTS, Steel. See STEEL, Shear tests

SHEAR TESTS, Viscose rayon, Fabrics. See FABRICS,
Rayon, Viscose, Shear tests

SHEAR WALLS, Tall buildings. See BUILDINGS, Tall, Walls,
Shear

SHEARER LOADERS, Coal mining. See COAL, Mining, Shearer
loaders

SHEARERS, Coal mining. See COAL, Mining, Shearers

- SHEARING, Aluminium, Strips.** See STRIPS, Aluminium, Shearing
- SHEARING, Cold flow, Billets.** See BILLETS, Shearing, Cold flow
- SHEARING, Metals.** See METALS, Shearing
- SHEARING, Steel, Strips, Coils.** See COILS, Strips, Steel, Shearing
- SHEATHED ALUMINIUM RODS.** See RODS, Aluminium, Sheathed
- SHEATHING, Copper conductors.** See CONDUCTORS, Electrical, Copper, Sheathing
- SHEATHING, Electric cables.** See CABLES, Electric, Sheathing
- SHEDS**
Related Headings:
HUTS
- SHEDS, Docks.** See DOCKS, Sheds
- SHEDS, Fishing.** See FISHING, Sheds
- SHEDS, Portal frames, Pitched roofs, Clad, Structural analysis**
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- SHEET FED LITHOGRAPHY, Printing, House journals.** See HOUSE JOURNALS, Printing, Lithography, Sheet fed
- SHEET FED MACHINES, Photogravure.** See PHOTO-GRVURE, Machines, Sheet-fed
- SHEET FED MACHINES, Printing, Photogravure, Packaging materials.** See PACKAGING, Materials, Printing, Photogravure, Machines, Sheet fed
- SHEET FED OFFSET LITHOGRAPHY.** See LITHOGRAPHY, Sheet fed offset
- SHEET FED ROTARY MACHINES, Printing.** See PRINTING, Machines, Rotary, Sheet fed

SHEETS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Materials**Metals**

- Steel*
- Non-ferrous metals*
- Nimonic alloys*
- Molybdenum*
- Titanium*
- Titanium alloys*
- Aluminium*
- Aluminium alloys*
- Aluminium-Zinc*
- Lead*
- Brass*

Plastics

- Acrylic plastics*
- Thermoplastics*
- Polymethyl methacrylate*
- P.V.C.*
- Asbestos - P.V.C.*
- Polyester-Glass fibre*

Rubber**Glass****Applications**

- Buildings*
- Ships*

SHEETS, Acrylic plastics, Extrusion, Vertical

Extrusion plant for the production of clear acrylic sheet. *International Plastics Engng.*, 5 (May 65) p.128-30. il.

SHEETS, Aluminium, Drawing, Deep, Earing

Influence of deep-drawing conditions on the earing of aluminium sheet. J. C. Wright. *J. of Inst. of Metals*, 93 (May 65) p.289-97. il. refs.

SHEETS, Aluminium, Photosensitive

Photo-sensitive aluminium sheet. *Light Production Engng.*, 3 (Aug 65) p.14-15. il.

SHEETS, Aluminium, Strain hardened, Annealing, Recovery, Dislocations

On the role of dislocations in the recovery of cold-worked aluminium. A. Rosen & J. E. Dorn. *J. of Inst. of Metals*, 93 (Jul 65) p.387-92. il. refs.

SHEETS, Aluminium alloy, Cladding, Aircraft. See AIR-CRAFT, Cladding, Sheets, Aluminium, Alloys**SHEETS, Aluminium alloy, Cracks, Fatigue, Effect of hardness**

Fatigue crack propagation and hardness. P. P. Benham & T. G. J. Moag. *Engineer*, 219 (30 Apr 65) p.760-3. il. refs.

SHEETS, Aluminium-Zinc, Thermoforming

Thermo-forming of superplastic-alloy sheet. D. S. Fields, jr. Engrs'. Digest, 26 (Jul 65) p.97-8. il. refs.

SHEETS, Asbestos-P.V.C.

Inorganic fibre reinforced thermoplastics [Duraform] G. L. Wicker. Rubber & Plastics Age, 46 (Mar 65) p.273-5. il.

SHEETS, Brass, Forming, Explosives

Experiments on clamped circular blanks subject to an underwater explosive charge. W. Johnson & R. Sowerby. Instn. of Mechanical Engrs. Proc., 179 pt.1 no.7 (1964-65) p.197-221. il. refs.

SHEETS (Buildings) Steel

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Use of steel sheet in civil engineering. H. V. Hill & E. W. Hindhaugh. Civil Engng. & Public Works Rev., 60 (Mar 65) p.405+. il. refs.

SHEETS (Buildings) Steel, Coated

Colour-coated steel: its uses in the built environment. M. Quantrill. Sheet Metal Industries, 42 (Dec 65) p.944-6

SHEETS, Coated, Thin layer chromatography. See CHROMATOGRAPHY, Thin layer, Sheets, Coated**SHEETS, Glass, Mechanical handling, Fork trucks**

Lift truck to handle glass—suction pad experiment pays off [D. W. Price (Peckham) Ltd.] Storage Handling Distribution, 8 (Feb 65) p.64-5. il.

SHEETS, Lead, Casting, Continuous

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SHEETS, Metals, Agricultural equipment. See AGRICULTURAL EQUIPMENT, Sheets, Metal**SHEETS, Metals, Bending, Radii**

Developed length of circular bends: design data. Design & Components in Engng. (13 May 65) p.14-15. il.
Maximal bending radii. F. Strasser. Tooling, 19 (Jul 65) p.61-2. il.

SHEETS, Metals, Bulge tests, Hydrostatic

Use of the biaxial test extensometer. W. Johnson & J. L. Duncan. Sheet Metal Industries, 42 (Apr 65) p.271-5. il.

SHEETS, Metals, Cladding, Buildings. See BUILDINGS, Cladding, Metals, Sheets**SHEETS, Metals, Cracks, Strain**

Strain distributions around cracks in ductile sheets during loading and unloading. J. R. Dixon & J. S. Strannigan. J. of Mechanical Engng. Science, 7 (Sep 65) p.312-17. il.

SHEETS, Metals, Drawing, Erichsen test

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SHEETS, Metals, Education

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SHEETS, Metals, Forming, Electrohydraulic

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Deep drawing and free forming using a water hammer technique. A. P. Vafiadakis, W. Johnson & I. S. Donaldson. Instn. of Mechanical Engrs. Proc., 179 pt.1 no.7 (1964-65) p.222-33. il. refs.

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SHEETS, Metals, Radiators. See RADIATORS, Sheets, Metals**SHEETS, Metals, Rolling, Shape, Measurement, Instruments**

Shape measurement and control. W. K. J. Pearson. J. of Inst. of Metals, 93 (Feb 65) p.169-78. il. refs.

SHEETS, Metals, Welding

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SHEETS, Molybdenum, Notched, Cracks, Tensile stresses, Photoelasticity

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SHEETS, Music. See MUSIC, Sheets**SHEETS, Nimonic alloys, Creep**

Creep properties of some high temperature nickel base alloys in sheet form. A. G. Duce, B. Hicks & W. A. Potter. Instn. of Mechanical Engrs. Proc., 178 pt.3A (1963/64) p.5-43-54. il. refs.

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SHEETS, P.V.C., Calendering

PVC sheet production and development in modern calendering techniques. G. N. Walton. Plastics, 30 (Aug 65) p.42-6. il.

SHEETS, P.V.C., Extrusion

Extrusion of rigid PVC sheet. D. J. Dowrick. Plastics, 30 (Oct 65) p.67-9. il.

SHEETS, P.V.C., Linings, Tunnels. See TUNNELS, Linings, Sheets, P.V.C.**SHEETS, P.V.C., Textile manufactures.** See TEXTILES, Manufactures, Sheets, P.V.C.**SHEETS, Piles.** See PILES, Sheet**SHEETS, Plastics, Calenders, Rolls, Heating**

Modern approach to calender and mill roll heating. E. Chilton. Rubber & Plastics Age, 45 (Dec 64) p.1477-8. il.

SHEETS, Plutonium, Fuels, Nuclear reactors. See NUCLEAR REACTORS, Fuels, Plutonium, Sheets**SHEETS, Polyester-Glass fibre, Preimpregnated, Fatigue**

Repeated loading of chopped-mat polyester sheet. W. S. Carswell & G. R. Borwick. Plastics Inst. Trans. & J., 33 (Oct 65) p.169-74. il. refs.

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SHEETS, Polymethyl methacrylate, Fracture, Velocity

Velocity effects in fracture propagation. B. Cotterell. Applied Materials Research, 4 (Oct 65) p.227-32. il. refs.

SHEETS, Polythene, Farm buildings. See FARM BUILDINGS, Sheets, Polythene

SHEETS, Rubber, Indenting, Cylinders

Indentation of thin rubber sheets by cylindrical indentors.
N. E. Waters. *Brit. J. of Applied Physics*, 16 (Sep 65)
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SHEETS, Rubber, Indenting, Spheres

Indentation of thin rubber sheets by spherical indentors.
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SHEETS (Ships) Asbestos cement

Asbestos boards [Turners Asbestos Cement Co. Ltd. &
James H. Randall & Son, Ltd.] *Ship & Boat Builder*, 18
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SHEETS, Steel, Aluminised, Hot dip, Welding

Welding hot dip aluminized steel [Auldip] T. M. Molossi &
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SHEETS, Steel, Annealed, Hardness, Measurement

Continuous hardness measurement of annealed sheet
[Richard, Thomas and Baldwin Ltd.] *Light Metals &
Metal Industry*, 28 (Apr 65) p.54-5. il.

SHEETS, Steel, Bodies, Motor cars. See MOTOR CARS, Bodies, Sheets, Steel**SHEETS, Steel, Cladding, Pipes, Chemical engineering plant. See CHEMICAL ENGINEERING, Plant, Pipes, Cladding, Sheets, Steel****SHEETS, Steel, Coated, Plastics, Storage, Warehouses**

Stockholders specialize in plasti-coated steel [Steel
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SHEETS, Steel, Enamelling, Vitreous, Stoving, Furnaces, Electric

Simultaneous vitreous enamelling of cast-iron and sheet-
steel parts [Simplex Electrical Co. Ltd.] *Metal Finishing*
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SHEETS, Steel, Galvanised, Panels, Buildings. See BUILDINGS, Panels, Sheets, Steel, Galvanised**SHEETS, Steel, Killed, Strain-ratio**

Measurement of normal plastic anisotropy in sheet steel.
M. Arkinson & I. M. Maclean. *Sheet Metal Industries*, 42
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SHEETS, Steel, Low alloy, Welding, Cracking, Effect of manganese

Effect of manganese, sulphur and phosphorus on weld
cracking in R.S. 140 low alloy steel sheet. J. C. Borland.
Brit. Welding J., 11 (Dec 64) p.634-9. il. refs.

SHEETS, Steel, Low alloy, Welding, Cracking, Effect of phosphorus

Effect of manganese, sulphur and phosphorus on weld
cracking in R.S. 140 low alloy steel sheet. J. C. Borland.
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SHEETS, Steel, Low alloy, Welding, Cracking, Effect of sulphur

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SHEETS, Steel, Magnetic cores. See CORES, Magnetic, Sheets, Steel**SHEETS, Steel, Mild, Annealed, Yield stress, Measurement**

Measurement of the yield stress of annealed low-carbon steel.
R. D. Butler. *Sheet Metal Industries*, 42 (Nov 65) p.846+.
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SHEETS, Steel, Mild, Forming, Explosives

Experiments on clamped circular blanks subject to an under-
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SHEETS, Steel, Mild, Galvanised, Peeling

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Estimation of temper-rolling reductions of mild-steel sheet
by x-ray back reflection. A. O'Connor & J. M. Sparkes.
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SHEETS, Steel, Radiators. See RADIATORS, Sheets, Steel**SHEETS, Steel, Rimming, Drawing, Deep, Coatings**

Laboratory and press-shop examination of some dry-film
lubricants. H. T. Coupland & W. Holyman. *Sheet Metal
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SHEETS, Steel, Rimming, Mechanical properties

Variation of mechanical properties and cold-forming test
results in rimming-steel sheets. L. W. Crane & J. C.
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SHEETS, Steel, Rolling, Levelling, Equipment, Maintenance

Maintenance of levellers for plate and sheet. R. Jamieson.
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SHEETS, Steel, Stainless, Shock absorbers, Cores, Nuclear reactors. See NUCLEAR REACTORS, Cores, Shock absorbers, Sheets, Steel, Stainless**SHEETS, Titanium, Forming, Cold**

Cold forming titanium sheet. K. H. Berkland & R. W. Alarie.
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SHEETS, Titanium alloys, Pressworking, Lubricants

Surface treatments and lubricants for improving the press-
forming properties of titanium and its alloys. E. Mitchell
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SHEFFIELD

See

BUSES, Transport, Sheffield

CHURCHES, Sheffield

FLATS, Old people, Sheffield

HOUSING, Sheffield

STEEL, Crucible, Production, Sheffield

WATER, Engineering, Sheffield

SHEFFIELD. UNIVERSITY, Department of Glass Technology

University of Sheffield, Department of Glass Technology.
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SHEFFIELD. UNIVERSITY, Geology Department

Geology building and technology library for the University
of Sheffield. *Architectural Design*, 35 (Apr 65) p.187. il.

SHELL MOULDS. See MOULDS, Shell**SHELL MOULDS, Casting, Iron. See IRON, Casting, Moulds, Shell****SHELL MOULDS, Casting, Moulds, Ceramic manufactures. See CERAMICS, Manufactures, Moulds, Casting, Moulds, Shell****SHELL ROOFS. See ROOFS, Shell****SHELL ROOFS, Market buildings. See MARKETS, Buildings, Roofs, Shell****SHELL ROOFS, Pavilions, Gardens. See GARDENS, Pavilions, Roofs, Shell****SHELL ROOFS, Schools. See SCHOOLS, Roofs, Shell****SHELLAC, Coatings. See COATINGS, Shellac****SHELLAC-TUNG OIL, Varnishes. See VARNISHES, Tung oil-Shellac****SHELLFISH**

Related Headings:

COCKLES

CRABS

CRAYFISH

LOBSTERS

MUSSELS

OYSTERS

PRAWNS

SCALLOPS

SHRIMPS

SHELLS, Aluminium, Drawing

Extreme draws in one op. [Metal-Flo Corporation] *Metal-
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- SHELLS, Anisotropic, Structural analysis, Matrix displacement method, Triangular elements**
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- SHELLS, Composite**
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- SHELLS, Conical, Concrete, Structural analysis**
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- SHELLS, Conoidal, Parabolic, Membrane stresses**
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- SHELLS, Creep**
On the equations for steady state creep of thin shells. A. C. Mackenzie. *J. of Mechanical Engng. Science*, 7 (Mar 65) p.114-17. il. refs.
- SHELLS, Cylindrical, Buckling (Axial compression)**
Instability of buckle pattern in cylindrical shells under axial compression. E. H. Mansfield. *Aeronautical Q.*, 16 (Aug 65) p.275-81. il. refs.
- SHELLS, Cylindrical, Circular, Axisymmetric deformation**
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- SHIELDING, Iron, Cast, Nuclear reactors.** See **NUCLEAR REACTORS, Shielding, Iron, Cast**
- SHIELDING, Lead, Nuclear reactors.** See **NUCLEAR REACTORS, Shielding, Lead**
- SHIELDING, Liquid metal cooled fast reactors.** See **NUCLEAR REACTORS, Fast, Liquid metal cooled, Shielding**
- SHIELDING, Neutrons, Beryllium-Polonium sources.** See **NEUTRONS (Sources, Beryllium-Polonium) Shielding**
- SHIELDING, Nuclear reactors.** See **NUCLEAR REACTORS, Shielding**
- SHIELDING, Protons, Vehicles, Astronautics.** See **ASTRONAUTICS, Vehicles, Proton shielding**
- SHIELDING, X-rays.** See **X-RAYS, Shielding**
- SHIELDS, Carbon dioxide shielded arc welding.** See **WELDING, Arc, Carbon dioxide shielded, Shields**
- SHIELDS, Thermal radiation, Copper, Cryogenics.** See **CRYOGENICS, Thermal radiation, Shields, Copper**
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- 100 years of progress [Yarrow & Company Ltd.]** Sir Eric G. Yarrow. *Shipping World & Shipbuilder*, 154 (13 May 65) p.477-9. il.
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SHIPBUILDING

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MARINE ENGINEERING
SHIPYARDS
STEEL, Shipbuilding materials
WARSHIPS, Building

SHIPBUILDING, Coatings, Metals, Spraying

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See

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SHIPPING

Related Headings:

BUOYS

LIGHTHOUSES

PORTS

SHIPS

SHIPPING, Collision rules

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SHIPPING, Collisions

Regional incidence of collision. F. W. Fricker. *J. of Inst. of Navigation*, 18 (Apr 65) p.163-79. il.

SHIPPING, Industry, Finland

Finland's economy safeguarded by modern merchant fleet.

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SHIPPING, Traffic control, Ports, Radar

Harbour radar developments at Southampton. J. Andrew. *J. of Inst. of Navigation*, 18 (Jan 65) p.88-93

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W. N. Cayer. *Motor Ship*, 46 (Jun 65) p.105-7. il.

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What the shipowner looks to in future ship design, equipment and machinery. F. B. Bolton. *Motor Ship*, 45 (Jan 65) p.409-12. il.

SHIPS

Related Headings:

ANCHORS

BARGES

BOATS

BOUYS, Maintenance, Vessels

DREDGERS (Ships)

FERRIES

FIREBOATS

FISHING, Vessels

HULLS

ICEBREAKERS

LAUNCHES

LIFEBOATS

RAFTS

SCHOONERS

TANKERS, Ships

TUGS

WARSHIPS

YACHTS

SHIPS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Research

Model tests

Models

Manpower

Problems

Fires

Explosions

Corrosion

Cathodic protection

Properties

Strength

Buoyancy

Motion

Waves

Sway

Temperature

Colour

SHIPS—SUBHEADINGS—Synopsis—cont.

Technical activities

- Design
- Maintenance
- Repairs
- Painting
 - Paint
- Lengthening
- Navigation
 - Data logging
 - Pilotage
- Docking
 - Berthing
- Loading

Parts, Equipment & Services

- Equipment
- Structural parts
 - Grillages
 - Plates
 - Sheets
 - Panels
 - Superstructures
 - Hatches
 - Hatch covers
- Control systems
- Machinery
 - Engines
 - Fuels
 - Steam engines
 - Steam turbines
 - Diesel engines
 - Diesel—Steam engines
 - Gas turbines
 - Electrical propulsion
 - Nuclear propulsion
 - Couplings
 - Clutches
 - Propellers
 - Roll Stabilisers
 - Steam plant
 - Boilers
 - Waste heat recovery
 - Mechanical handling
 - Cranes
 - Winches
 - Hydraulic motors
 - Pipes
 - Valves
 - Pumps
- Steering systems
- Electrical equipment
 - Alternators
 - Electrical installations
 - Power distribution
- Instruments
- Gangways
- Flags

Services & Facilities

- Engineering services
 - Air conditioning
 - Ventilation
 - Refrigeration equipment
- Interior design
- Lifeboats

Performance

- Operational performance
- Manoeuvrability

SHIPS—SUBHEADINGS—Synopsis—cont.

Types of ships

- By structure
 - Surface effect
 - Catamaran
- By propulsion characteristics
 - Motor
- By facilities
 - Refrigerated
- By cargo
 - Passenger
 - Fruit carrying
 - Coal carrying
 - Ore carrying
 - Cement carrying
 - Timber carrying
 - Motor car carrying
- By special function
 - Salvage (Research)
 - Oceanography research
 - Hydrographic survey
 - Antarctic research
 - Weather
 - Cable repair

SHIPS, Air conditioning, Equipment

- Ships: temperature control. Heating & Air Conditioning, 35 (Nov 65) p.30-1. il.

SHIPS, Alternators

- A.C. power generation for ships. H. C. R. Trewman. Motor Ship, 46 (Nov 65) p.379-81. il.
- Trends in marine alternators. A. K. Bose. Ship & Boat Builder, 18 (Feb 65) p.40-2. il.

SHIPS, Alternators, Diesel engines

- High-speed diesel generating sets for auxiliary power. D. E. Barber. Shipbuilding & Shipping Record, 105 (22 Apr 65) p.520-2. il.
- £24/kW diesel generator set. Motor Ship, 45 (Dec 64) p.391-2. il.

SHIPS, Alternators, Diesel engines, Control systems

- Automatic starting of generator sets. Motor Ship, 46 (Jun 65) p.139-40. il.

SHIPS, Alternators, Diesel engines, Vibration isolators

- Jarret S-type resilient mountings. Marine Engr. & Naval Architect, 88 (Jan 65) p.29-30. il.

SHIPS, Alternators, Repairs

- Repair by replacement. R. E. Reyner. Ship & Boat Builder, 18 (Oct 65) p.49-50

SHIPS, Antarctic research

- "Fuji", a Japanese antarctic research & survey vessel. Shipbuilding & Shipping Record, 106 (9 Sep 65) p.348-50. il.

SHIPS, Berthing, Winches

- Automatic mooring winches assist in berthing (abstract) Marine Engr. & Naval Architect, 88 (Mar 65) p.134+. il.

SHIPS, Boilers

- Boilers. Shipbuilding & Shipping Record, 106 (9 Sep 65) p.340+. il.

SHIPS, Boilers, Control systems

- Boiler room automation. Shipbuilding & Shipping Record, 106 (23 Sep 65) p.416-17. il.
- Fundamentals of marine control engineering, pt.5: automatic control of boilers. Marine Engr. & Naval Architect, 88 (May 65) p.220-3. il.

SHIPS, Boilers, Fire tube

- Fully automatic packaged boiler burns 3,500 seconds fuel [Paxman Automatic] Shipbuilding & Shipping Record, 105 (18 Mar 65) p.346-7. il.

SHIPS, Boilers, Furnaces, Oil-fired, Refractories, Quarl blocks

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SHIPS, Boilers, Oil-fired, Control systems

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SHIPS, Buoyancy, Effect of waves

Note on the buoyancy of a ship amongst waves. W. Muckle. *Shipping World & Shipbuilder*, 156 (2 Dec 65) p.572+. il. refs.

SHIPS, (Cable repair, Icebreaking)

Canadian icebreaking cable repair ship ["John Cabot"] *Motor Ship*, 46 (Sep 65) p.255-6. il.

SHIPS, Catamaran

Why not a catamaran Channel car ferry? *Engineering*, 199 (7 May 65) p.618-19. il.

SHIPS, Cathodic protection

Cathodic protection of sea water services [Cathelco Electrolytic System] *Shipbuilding & Shipping Record*, 105 (25 Feb 65) p.248-9. il.

SHIPS, Cement carrying

"Ligar Bay" a diesel electric cement carrier. *Shipping World & Shipbuilder*, 153 (7 Jan 65) p.76-83. il.

"Ligar Bay" self loading & discharging bulk cement carrier. *Shipbuilding & Shipping Record*, 104 (10 Dec 64) p.772-6. il.

"Mar Grande" Italian bulk cement carrier Ansaldo's "L. Orlando" yard. *Shipping World & Shipbuilder*, 153 (4 Mar 65) p.707-8. il.

Ships for transporting cement in bulk. L. S. Holt. *Cement & Lime Manufacture*, 38 (Mar 65) p.23-32. il.

SHIPS, Cement carrying, Mechanical handling equipment

Marine transport of cement in bulk [Ligar Bay] L. S. Holt. *Mechanical Handling*, 52 (Apr 65) p.179-83. il.

SHIPS, Clutches, Magnetic

Features and applications of electric slip couplings [ASEA couplings] H. Arnemo. *Motor Ship*, 46 (Dec 65) p.417-18. il.

SHIPS, Coal-carrying

"Crescence" advanced coastal collier. *Shipbuilding & Shipping Record*, 105 (18 Mar 65) p.344-5. il.

"Hudson Light"—a new type of ship. *Marine Engr. & Naval Architect*, 88 (Sep 65) p.383-8. il.

'Hudson Light': self-trimming bulk carrier for coastal service. *Shipping World & Shipbuilder*, 155 (2 Sep 65) p.583-7. il.

"Hudson Light": a specially designed 6,900-ton collier, with controllable pitch main & bowthruster propellers. *Shipbuilding & Shipping Record*, 106 (26 Aug 65) p.274-6. il.

Large coastal collier "Chelwood". *Marine Engr. & Naval Architect*, 87 (Dec 64) p.584-6. il.

Large new collier goes on charter to C.E.G.B. [Chelwood] *Shipping World & Shipbuilder*, 153 (7 Jan 65) p.21-4. il.

Remote-controlled Duxford-engined C.P. propeller installation in a 6900 ton collier ["Hudson Light"] *Motor Ship*, 46 (Sep 65) p.239-43. il.

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"Sighansa", a 68,150-ton d.w. bulk carrier features ship-bourne unloader. *Shipbuilding & Shipping Record*, 106 (12 Aug 65) p.208-14. il.

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SHIPS, Coal-carrying, Cargoes, Handling

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SHIPS, Colour

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SHIPS, Control systems, Cascade

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SHIPS, Control systems, Computers

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SHIPS, Control systems, Pneumatic

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SHIPS, Control systems, Pneumatic, Valves

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SHIPS, Control systems, Read-out, Equipment

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'Brisk', a twin-engine North Sea trader. Shipbuilding &
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28 435 ton d.w. 'own account' bulk carrier ["British Monarch"]
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"Buccleuch": new bulk carrier for British owners.
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il.

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"Bulk Venture": Burmeister & Wain's largest bulk carrier.
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Versatile Baltic cargo liner ["Clio"] Marine Engr. & Naval
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"Exning", a standard economical motor cargo vessel.
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Goole-built timber/bulk carriers of 2650 ton d.w. on 1599
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SHIPS, "Frank H. Brown"

For the White Pass and Yukon route. Shipping World &
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"Gotland" a Dutch-built & engined passenger & car ferry.
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Buries Marks largest ship. Shipping World & Shipbuilder,
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Buries Marks' largest ship—41,000 ton D.W. bulk carrier
"La Estancia". Motor Ship, 46 (Oct 65) p.287-91. il.

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"Ljubljana" first of a series of seven Yugoslav cargo ships.
Shipbuilding & Shipping Record, 105 (14 Jan 65) p.51-2.
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'Louise Lykes': first of a new class of cargo liner.
Shipping World & Shipbuilder, 156 (4 Nov 65) p.325-7. il.
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"Newfoundland": new furness Withy design. Shipping
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SHIPS, "Nordland"

"Nordland": largest Swedish clean bulk carrier. Shipping
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SHIPS, "Oriental Envoy"

'Oriental Envoy': Spanish-built ship for C. Y. Tung group.
Shipping World & Shipbuilder, 155 (2 Sep 65) p.579-82.
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'Pacific Ocean': new Swedish cargo vessel has transom
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Fruit-carrying liner "Port Huon". Marine Engr. & Naval Architect, 88 (May 65) p.218-19. il.

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Port Line's latest 19 knot refrigerated cargo liner series ['Port Huon'] Motor Ship, 46 (May 65) p.63-9. il.

SHIPS, "Presidente Kennedy"

'Presidente Kennedy'. Shipping World & Shipbuilder, 155 (2 Sep 65) p.591-4. il.

SHIPS, "Republica de Colombia"

Six advanced cargo liners for Flota Mercante Grancolombiana. Motor Ship, 45 (Dec 64) p.366-70. il.

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Goole-built timber/bulk carriers of 2650 ton d.w. on 1599 gross tons. Motor Ship, 46 (Apr 65) p.23-5. il.

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27,250 ton D.W. self-discharging bulk carrier for British owners ['Ribera'] Motor Ship, 46 (Aug 65) p.192-5. il.

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"Romandie" new bulk carrier [Charles Connell & Co. (Shipbuilders) Ltd.] Shipping World & Shipbuilder, 153 (4 Mar 65) p.712+. il.

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'Scenic': dual-purpose cargo vessel enters service. Shipping World & Shipbuilder, 156 (2 Dec 65) p.565-8. il.

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Remote control of machinery in cargo liners in Cunard services. Motor Ship, 45 (Mar 65) p.557-8. il.

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"Shahristan", a 12,100-ton d.w. cargo liner powered by the first remote controlled doxford engine. Shipbuilding & Shipping Record, 105 (4 Feb 65) p.142-5. il.

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Data logging in a 31410 ton d.w. bulk carrier. Motor Ship, 46 (Apr 65) p.29-33. il.

SHIPS, "Southampton Castle"

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Express cargo liner for Cape Mail service [Southampton Castle] Marine Engr. & Naval Architect, 88 (Jun 65) p.252-5. il.

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SHIPS, "Ujpest"

Hungarian-built vessels for river and sea-going service.

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Bulk carrier M.V. "Vesteroy". Engineer, 220 (30 Jul 65) p.202-3. il.

New Gotaverken diesel in service [Vesteroy] Shipping World & Shipbuilder, 155 (5 Aug 65) p.365-71. il.

New Götaverken engine enters service ['Vesteroy'] Motor Ship, 46 (Aug 65) p.199-205. il.

"Vesteroy", lead ship in a series of 34,000 ton bulk carriers. Shipbuilding & Shipping Record, 106 (22 Jul 65) p.113-14. il.

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"Wearfield" a single-screw bulk carrier. Shipping World & Shipbuilder, 153 (7 Jan 65) p.61-5. il.

SHIPS, "Wihuri"

"Wihuri", the first of two Finnish-built & owned cargo liners. Shipbuilding & Shipping Record, 106 (19 Aug 65) p.245-6. il.

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Eight-engined Japanese ferry [Japanese National Railways Ferry "Yotei Maru"] Motor Ship, 46 (Oct 65) p.314-17. il.

SHIPS, "Zealandic"

£40,000 data logging installation in the refrigerated cargo liner 'Zealandic'. Motor Ship, 46 (Jun 65) p.129-33. il.

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SHOCK ABSORBERS (Bridges) Hydraulic, Components, Machining, Diamond

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OPAL

QUARTZ

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ALUMINIUM SILICATE

ASBESTOS

BERYL

SILICATES

Related Headings—cont.

CLAY

MICA

VERMICULITE

SILICATES, Rock. See **ROCK, Silicates****SILICON, Annealed (Oxygen, Wet) Stacking faults, Two-dimensional, Microscopy, Electron**Two-dimensional defects in silicon after annealing in wet oxygen. G. R. Booker & R. Stickler. *Philosophical Magazine*, 11 (Jun 65) p.1303-8. il. refs.**SILICON, Coated, Microminiature circuit components.** See **CIRCUITS, Electronics, Microminiature, Components, Silicon, Coated****SILICON, Counters, Nuclear instruments.** See **COUNTERS, Nuclear instruments, Silicon****SILICON, Crystals, Single, Thermal conductivity, Measurement, Thermistors**Series comparative measurements of thermal conductivity with thermistors. R. G. Morris & W. G. 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COPPER-SILVER, Eutectic alloys, Solidification

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SOLUBILITY BOUNDARIES, Beta phase, Cadmium-Zinc.

See CADMIUM-ZINC, Beta phase, Solubility boundaries

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- SOLUTIONS, Aqueous, Urea, Extraction, Protein, Flour, Bread.** See BREAD, Flour, Protein, Extraction, Urea, Aqueous solutions
- SOLUTIONS, Binary, Liquids.** See LIQUIDS, Binary solutions
- SOLUTIONS, Platinum electrodes, Amperometric titrations.** See AMPEROMETRIC TITRATIONS, Electrodes, Platinum, Solutions
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- SOLVENT EXTRACTION, Curing determination, Polyesters.** See POLYESTERS, Curing, Determination, Solvent extraction
- SOLVENT EXTRACTION, Grease residues, Woollen fabrics.** See FABRICS, Woollen, Greases, Residues, Solvent extraction
- SOLVENT EXTRACTION, Humulones.** See HUMULONES, Solvent extraction
- SOLVENT EXTRACTION, Hydrofluoric acid.** See HYDROFLUORIC ACID, Solvent extraction
- SOLVENT EXTRACTION, Inorganic acids.** See INORGANIC ACIDS, Solvent extraction
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- SOLVENT EXTRACTION, Liquid, Drops, Formation, Mass transfer, Effect of surface active agents**
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- SOLVENT EXTRACTION, Platinum (IV).** See PLATINUM (IV) Solvent extraction
- SOLVENT EXTRACTION, Recycling, Fuels, Fast reactors.** See NUCLEAR REACTORS, Fast, Fuels, Recycling, Solvent extraction
- SOLVENT EXTRACTION, Sodium nitroprusside determination.** See SODIUM NITROPRUSSIDE, Determination, Solvent extraction
- SOLVENT EXTRACTION, Tar acids.** See TAR, Acids, Solvent extraction
- SOLVENT EXTRACTION, Uranium, Fuels, Nuclear reactors.** See NUCLEAR REACTORS, Fuels, Uranium, Solvent extraction
- SOLVENT FRACTIONATION, Coal tar.** See COAL TAR, Solvent fractionation
- SOLVENT SCOURING, Knitwear.** See KNITWEAR, Scouring, Solvent
- SOLVENTS**
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- SOLVENTS, Acetone, Enthalpy analysis, Acids.** See ACIDS, Enthalpy analysis, Solvents, Acetone
- SOLVENTS, Casting, Base materials, Photographic film.** See FILM, Photographic, Base materials, Casting, Solvents
- SOLVENTS, Finishing, Knitwear.** See KNITWEAR, Finishing, Solvents
- SOLVENTS, Flammable, Paint.** See PAINT, Solvents, Flammable
- SOLVENTS, Interactions with polymers, Dimension determination, Unperturbed molecules, Solutions, Polymers.** See POLYMERS, Solutions, Molecules, Unperturbed, Dimensions, Determination, Polymer-Solvent interactions
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- SOLVENTS, Steam, Effect on yield, High pressure methyl alcohol production.** See METHYL ALCOHOL, Production, High pressure, Yield, Effect of solvents, Steam
- SOLVENTS, Swelling, Rubber.** See RUBBER, Swelling, Solvents
- SOLVENTS, Viscose rayon manufactures.** See RAYON, Viscose, Manufactures, Solvents
- SOLVOLYSIS, Methoxyl substituted p-toluene sulphonate.** See p-TOLUENE SULPHONATE, Methoxyl substituted, Solvolysis
- SOLWAY FIRTH**
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TIDAL POWER STATIONS, Solway Firth
- SOMERSET**
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ROADS, Somerset

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SONIC DETECTORS, Faults, Nuclear reactors. See **NUCLEAR REACTORS**, Faults, Sonic detectors

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SONIC TESTING, Wood piles, Structures, Ports. See **PORTS**, Structures, Piles, Wood, Testing, Sonic

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SORBITIC ACID, Preservatives, Cake. See **CAKE**, Preservatives, Sorbic acid

SORPTION, Deuterium, Titanium, Films, Ion-getter pumps. See **ION-GETTER PUMPS**, Films, Titanium, Deuterium sorption

SORPTION, Hydrogen, Hot cathode ionisation gauges. See **IONISATION GAUGES**, Hot cathode, Hydrogen, Sorption

SORPTION, Hydrogen, Titanium, Films, Ion-getter pumps. See **ION-GETTER PUMPS**, Films, Titanium, Hydrogen sorption

SORPTION, Moisture, Terylene, Fabrics, Clothing. See **CLOTHING**, Fabrics, Terylene, Moisture, Sorption

SORPTION, Moisture, Wool, Fabrics, Clothing. See **CLOTHING**, Fabrics, Woollen, Moisture, Sorption

SORPTION, Nitrogen, Titanium, Films, Ion getter pumps. See **ION GETTER PUMPS**, Films, Titanium, Nitrogen sorption

SORPTION, Oxygen, Barium, Films, Ion getter pumps. See **ION GETTER PUMPS**, Films, Barium, Oxygen sorption

SORPTION, Pore size determination, Porous materials. See **POROUS MATERIALS**, Pore size determination, Sorption

SORPTION, Titania gels. See **GELS**, Titania, Sorption

SORPTION, Water, Stored food. See **FOOD**, Stored, Water sorption

SORPTION PUMPS, Ultra high vacuum. See **VACUUM**, Ultra high, Pumps (Sorption)

SORPTION PUMPS, Vacuum deposition, Single crystals, Metal, Films. See **FILMS**, Metal, Crystals, Single, Vacuum deposition, Pumps (Sorption)

SORTING

Related Headings:
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SORTING, Colour, Food. See **FOOD**, Colour sorting

SORTING, Colour, Separation, Mineral dressing. See **MINERAL DRESSING**, Separation, Colour sorting

SORTING, Computers. See **COMPUTERS**, Sorting

SORTING, Electronic, Diamonds. See **DIAMONDS**, Sorting, Electronic

SORTING, Equipment, Packaging machines. See **PACKAGING**, Machines, Sorting equipment

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SOUND, Insulation, Buildings. See **BUILDINGS**, Insulation, Sound

SOUND, Insulation, Floors. See **FLOORS**, Insulation, Sound

SOUND, Insulation, Ventilation equipment, Lecture halls. See **LECTURE HALLS**, Ventilation, Equipment, Insulation, Sound

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ANCHOVIES, Fishing, South Africa

BUILDING, Industry, South Africa

COAL, Mining, Durnacol

COAL, Mining, Phoenix Colliery

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 IRON, Industry, South Africa
 PETROLEUM, Prospecting, South Africa
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SOUTH EAST ENGLAND

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SPACE FLIGHT. See ASTRONAUTICS

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SPAIN

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HYDROELECTRIC-STEAM POWER STATIONS

STEAM-HYDROGEN, Reduction, Haematite. See HAEMATITE, Reduction, Hydrogen-Steam**STEAM JACKETS, Stirred reactors, Heat transfer, Lubricating oils. See LUBRICATING OILS, Heat transfer, Reactors, Stirred, Steam jacket****STEAM JACKETS, Stirred thick walled pans, Heat transfer, Water. See WATER, Heat transfer, Pans, Thick walled, Stirred, Steam jackets****STEAM-NAPHTHA, Reforming, Synthesis gas. See SYNTHESIS GAS, Production, Steam-Naphtha, Reforming****STEAM-NAPHTHA, Synthesis gas production. See SYNTHESIS GAS, Production, Steam-Naphtha****STEAM PIPES, Power stations. See POWER STATIONS, Steam pipes****STEAM TRACED PIPES. See PIPES, Steam traced****STEEL**

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STEEL-SUBHEADINGS-Synopsis

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Education

Teaching

Information services

Terminology

Research

Standardisation

Problems

Corrosion

Passivation

Properties

Effect of

Mechanical properties

Hardness

Brinell hardness number

Yield stress

Shear tests

Creep

Creep rupture tests

Fatigue

Fracture

Cracks

Friction stress

Thermal transformations

Chemistry

Inclusions

Technical activities

Analysis

Determination of

Colorimetry

Production

Manufactures

Mills

Melting

Re-melting

Purification

Removal of hydrogen

Foundry practice

Casting

Rolling

Extrusion

Forging

Cold heading

Bending

STEEL—SUBHEADINGS—Synopsis—cont.

- Heat treatment
 - Graphitisation
 - Quenching
- Strain ageing
- Stress relaxation
- Powder metallurgy
- Irradiation
- Welding
- Coatings
 - Paint
 - Gas plating
- Storage
- Transport
- Products
 - Castings
 - Forgings
 - Scrap
- Types of steel
 - By state
 - Liquid
 - By process
 - Crucible
 - Cast
 - Heat treated
 - Carburised
 - Welded
 - Coated
 - Galvanised
 - Electroplated
 - By property
 - Rimming
 - High temperature
 - High tensile
 - Free machining
 - By phase
 - Ferritic
 - Martensitic
 - Bainitic
 - Pearlitic
 - Cementite
 - By material
 - Hypereutectoid
 - Mild
 - Low alloy
 - Stainless
 - Alloys
 - By purpose
 - Shipbuilding materials

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STEEL, Alloys, Billets. See BILLETS, Steel alloys

STEEL, Alloys, Cast, Continuous, Forming

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STEEL, Alloys, Cogging, Forging, Machines

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STEEL, Austenitic, Ausformed, Conversion, Martensitic steel.

See STEEL, Martensitic, Ausformed austenite converted

STEEL, Austenitic, Steam pipes, Power stations. See POWER STATIONS, Steam pipes, Steel, Austenitic

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STEEL, Balls, Bearings. See BEARINGS, Balls, Steel

STEEL, Balls, Deformation, Stainless steel, Foil. See FOIL, Steel, Stainless, Deformation, Balls, Steel

STEEL, Bars. See BARS, Steel

STEEL, Bars, Reinforcement, Reinforced concrete structures. See STRUCTURES, Concrete, Reinforced, Reinforcement, Bars, Steel

STEEL, Beams. See BEAMS, Steel

STEEL, Beams, Supports, Concrete slabs. See SLABS, Concrete, Supported, Beams, Steel

STEEL, Belts, Conveyors, Coal mining. See COAL, Mining, Conveyors, Belts, Steel

STEEL, Bending, Tests, Micrometers, Grating

Optical micrometer suitable for use at high speed. M. C. Carey & M. R. Piggott. *J. of Scientific Instruments*, 42 (Jan 65) p.43-4. il.

STEEL, Billets. See BILLETS, Steel

STEEL, Blooms. See BLOOMS, Steel

- STEEL, Bodies, Commercial vehicles.** See **VEHICLES, Commercial, Bodies, Steel**
- STEEL, Bodies, Rolling stock (Passenger, Railways)** See **ROLLING STOCK (Passenger, Railways) Bodies, Steel**
- STEEL, Boilers.** See **BOILERS, Steel**
- STEEL, Bolts.** See **BOLTS, Steel**
- STEEL, Bolts, Joints, Steam plant.** See **STEAM, Plant, Joints, Bolts, Steel**
- STEEL, Bolts, Laminated magnetic cores.** See **CORES, Magnetic, Laminated, Bolts, Steel**
- STEEL, Bridges.** See **BRIDGES, Steel**
- STEEL, Bridges, Signalboxes, Railways.** See **RAILWAYS, Signalboxes, Bridges, Steel**
- STEEL, Brinell hardness number, Correlation with ultimate tensile strength**
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- STEEL, Cables.** See **CABLES, Steel**
- STEEL, Carburised, Distortion**
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- STEEL, Cases, Engines, Rockets.** See **ROCKETS, Engines, Cases, Steel**
- STEEL, Casings, Steam turbines.** See **STEAM, Turbines, Casings, Steel**
- STEEL, Cast, Testing, Ultrasonics**
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- STEEL, Casting, Continuous, Russia**
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- STEEL, Casting, Fumes, Control**
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- STEEL, Casting, Investment**
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STEREOCHEMISTRY, Aminopeptidase. See AMINOPEPTIDASE, Stereochemistry

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STEREOREGULAR POLYALDEHYDES. See POLYALDEHYDES, Stereoregular

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STEREOREGULAR POLYDIMETHYLACRYLAMIDE. See POLYDIMETHYLACRYLAMIDE, Stereoregular

STEREOREGULAR POLYMERS. See POLYMERS, Stereoregular

STEREOREGULAR POLYMETHYL METHACRYLATE. See POLYMETHYL METHACRYLATE, Stereoregular

STEREOSCOPIC PHOTOGRAPHY, Stereomodels, Molecules, Insecticides. See INSECTICIDES, Molecules, Stereomodels, Photography, Stereoscopic
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 STERILISATION

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STERILISATION, Air. See AIR, Sterilisation

STERILISATION, Dairy industry equipment. See DAIRY INDUSTRY, Equipment, Sterilisation

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STIFFENED PLATES. See PLATES, Stiffened

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STIFFENED STRIPS. See STRIPS, Stiffened

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STOKING, Pulverised coal, Boilers. See **BOILERS**, Coal, Pulverised, Stoking

STONE

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MARBLE

STONE, Carvings, Churches. See **CHURCHES**, Carvings, Stone

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STOPPING, Mining, Coal. See COAL, Mining, Stopping

STORAGE

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PALLETS

WAREHOUSES

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STORAGE, Alcoholic beverages. See ALCOHOLIC BEVERAGES, Storage

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STORAGE, Cheese. See CHEESE, Storage

STORAGE, Coffee products. See COFFEE, Products, Storage

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STORAGE, Compressed ozone. See OZONE, Compressed, Storage

STORAGE, Data. See DATA, STORAGE

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STORAGE, Diesel engine components. See DIESEL ENGINES, Components, Storage

STORAGE, Energy. See ENERGY, Storage

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STORAGE, Frozen fish. See FISH, Frozen, Storage

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STORAGE, Heating equipment components. See HEATING, Equipment, Components, Storage

STORAGE, Hydrogen. See HYDROGEN, Storage

STORAGE, Information. See INFORMATION, Storage

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STORAGE, Liquefied natural gas. See GAS, Natural, Liquefied, Storage

STORAGE, Liquefied petroleum gas. See GAS, Liquefied petroleum, Storage

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STORAGE, Liquid sulphur. See SULPHUR, Liquid, Storage

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STORAGE, Thermal, Heating, Cathedrals. See CATHEDRALS, Heating, Thermal storage

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STORAGE, Undried grain. See GRAIN, Undried, Storage

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STORAGE, Wines. See WINES, Storage

STORAGE, Xerography machines. See XEROGRAPHY, Machines, Storage

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SILOS

SPIRITS, Storage, Buildings

WAREHOUSES

WINES, Storage, Buildings

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STORAGE FURNITURE, Plywood. See FURNITURE (Storage) Plywood

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STORAGE UNITS, Computers. See COMPUTERS, Storage units

STORAGE UNITS (Computers) Magnetic films, Controlled coupling

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STORED BREWING YEAST. See **YEAST (Brewing) Stored**

STORED COAL. See **COAL, Stored**

STORED FOOD. See **FOOD, Stored**

STORED MAIZE. See **MAIZE, Stored**

STORED WHEAT. See **WHEAT, Stored**

STORES, Grain. See **GRAIN, Stores**

STORES, Retail. See **SHOPS, Retail**

STOVES, Blast furnaces. See **FURNACES, Blast, Stoves**

STOVING, Paint. See **PAINT, Stoving**

STOVING, Paint. See **PAINT (Stoving)**

STOVING, Paint, Bodies, Motor cars. See **MOTOR CARS, Bodies, Paint, Stoving**

STOVING, Paint, Springs, Seats. See **SEATS, Springs, Paint, Stoving**

STOVING, Vitreous enamelling, Cast iron. See **IRON, Cast, Enamelling, Vitreous, Stoving**

STOWAGE, Fish. See **FISH, Stowage**

STOWING, Mining, Coal. See **COAL, Mining, Stowing**

STOWING, Pneumatic, Coal mining. See **COAL, Mining, Stowing, Pneumatic**

STRAIGHTENING, Blades, Turbines. See **TURBINES, Blades, Straightening**

STRAIGHTENING, Metal strips. See **STRIPS, Metal, Straightening**

STRAIN, Bending, Antimony-Indium, Foil. See **FOIL, Antimony-Indium, Bending, Strain**

STRAIN, Compression, Concrete. See **CONCRETE, Compression, Strain**

STRAIN, Cracks, Metals, Sheets. See **SHEETS, Metals, Cracks, Strain**

STRAIN, Elastic-Plastic, Pipes. See **PIPES, Strain, Elastic-Plastic**

STRAIN, Elastic-Plastic, Thick walled cylinders. See **CYLINDERS, Thick walled, Strain, Elastic-Plastic**

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STRAIN, Torsional, Internal friction, Soda-Lime-Silica glass, Rods. See **RODS, Glass, Soda-Lime-Silica, Internal friction, Torsional strain**

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STRAIN GAUGES

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STRAIN GAUGES, Resistance, Structures. See **STRUCTURES, Strain gauges, Resistance**

STRAIN GAUGES, Semiconductor, Transducers, Pressure. See **PRESSURE, Transducers, Strain gauges, Semiconductor**

STRAIN GAUGES, Torque measurements, Shafts, Propellers, Ships. See **SHIPS, Propellers, Shafts, Torque, Measurement, Strain gauges**

STRAIN HARDENED AUSTENITIC STAINLESS STEEL. See **STEEL, Stainless, Austenitic, Strain hardened**

STRAIN HARDENED LOW ALLOY STEEL. See **STEEL, Low alloy, Strain hardened**

STRAIN HARDENING, Dislocations, Single crystals, Iron, Strips. See **STRIPS, Iron, Crystals, Single, Dislocations, Strain hardening**

STRAIN HARDENING, Effect on collapse load, Structures. See **STRUCTURES, Collapse load, Effect of strain hardening**

STRAIN HARDENING, Face centred cubic metals. See **METALS, Face centred cubic, Strain hardening**

STRAIN HARDENING, Single crystals, Copper. See **COPPER, Crystals, Single, Strain hardening**

STRAIN HARDENING, Single crystals, Copper-Gold. See **COPPER-GOLD, Crystals, Single, Strain hardening**

STRAIN PULSES, Temperature determination, Martensitic transformation, Steel strips. See **STRIPS, Steel, Martensitic transformation, Temperature, Determination, Strain pulses**

STRAIN-RATIO, Killed steel, Sheets. See **SHEETS, Steel, Killed, Strain-ratio**

STRAIT OF GEORGIA

See

POWER TRANSMISSION, D.C., High voltage, Strait of Georgia

STRAND TENDONS, Prestressed concrete. See **CONCRETE, Prestressed, Tendons, Strand**

STRAPPING, Packaging. See **PACKAGING, Strapping**

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STRENGTH, Bending, Composite beams. See BEAMS, Composite, Bending, Strength

STRENGTH, Bending—Torsion, Reinforced concrete beams. See BEAMS, Concrete, Reinforced, Bending—Torsion, Ultimate strength

STRENGTH, Biaxially stressed concrete. See CONCRETE, Biaxially stressed, Strength

STRENGTH, Boxes, Moulds. See MOULDS, Boxes, Strength

STRENGTH, Bricks. See BRICKS, Strength

STRENGTH, Building materials. See BUILDING, Materials, Strength

STRENGTH, Bursting, Pipes. See PIPES, Bursting, Strength

STRENGTH, Coke. See COKE, Strength

STRENGTH, Composite columns. See COLUMNS, Composite, Strength

STRENGTH, Concrete. See CONCRETE, Strength

STRENGTH, Crease resistance, Cotton fabrics. See

FABRICS, Cotton, Crease resistance, Strength

STRENGTH, Derrick cranes, Ships. See SHIPS, Cranes, Derrick, Strength

STRENGTH, Dry, Clay. See CLAY, Dry strength

STRENGTH, Fibres, Reinforced concrete. See CONCRETE, Reinforced, Fibres, Strength

STRENGTH, Glass fibre reinforced plastics. See PLASTICS, Reinforced—Glass fibre, Strength

STRENGTH, Heat resistant concrete. See CONCRETE, Heat resistant, Strength

STRENGTH, Inorganic fibre reinforced metals. See METALS, Reinforced—Inorganic fibres, Strength

STRENGTH, Polyester—Glass fibre. See POLYESTER—GLASS FIBRE, Strength

STRENGTH, Polyesters, Effect on strength, Polyester—Glass fibre. See POLYESTER—GLASS FIBRE, Strength, Effect of polyester strength

STRENGTH, Railway passenger rolling stock. See ROLLING STOCK (Passenger, Railways) Strength

STRENGTH, Tankers, Ships. See TANKERS, Ships, Strength

STRENGTH, Testing, Instruments

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STRENGTH, Testing, Machines, Control systems

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STRENGTH, Wood components, Housing. See HOUSING, Components, Wood, Strength

STRENGTH, Worsted, Yarns. See YARNS, Worsted, Strength

STRENGTH OF MATERIALS

Related Headings :

- ANELASTICITY
 - BENDING
 - BUCKLING
 - BURST TESTING
 - COLLAPSE
 - COMPRESSION
 - COMPRESSION STRENGTH
 - COMPRESSION TESTS
 - CRACKS
 - CREEP
 - DEFORMATION
 - DUCTILITY
 - ELASTIC MODULUS
 - ELASTICITY
 - FATIGUE
 - FLOW STRESS
 - FRACTURE
 - HARDNESS
 - IMPACT TESTS
 - IMPULSIVE LOADING
 - LOADING, Dynamic
 - LOADING (Stress)
 - PHOTOELASTICITY
 - PLASTIC DEFORMATION
 - PLASTICITY
 - RHEOLOGY
 - RUPTURE
 - SHEAR
 - SHEAR STRESSES
 - SHEAR TESTS
 - SHOCK LOADING
 - STIFFNESS
 - STRAIN
 - STRESS-STRAIN RELATIONSHIPS
 - STRESSES
 - TENSILE IMPACT TESTING
 - TENSILE STRENGTH
 - TENSILE STRESSES
 - TENSILE TESTS
 - TORSION
 - YIELD POINT
 - YIELD STRESS
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- STRENGTHENING, Forward bottoms, Hulls. See HULLS, Bottoms, Forward, Strengthening
- STRESS, Friction, Body centred cubic iron. See IRON, Body centred cubic, Friction stress
- STRESS, Friction, Steel. See STEEL, Friction stress
- STRESS CORROSION, Aluminium alloys. See ALUMINIUM, Alloys, Stress corrosion
- STRESS CORROSION, Austenitic stainless steel. See STEEL, Stainless, Austenitic, Stress corrosion
- STRESS CORROSION, Cracking, Stainless steel. See STEEL, Stainless, Cracking, Stress corrosion
- STRESS CORROSION, Cracks, Aluminium alloys. See ALUMINIUM, Alloys, Cracks, Stress corrosion
- STRESS CORROSION, Cracks, Aluminium-Magnesium-Zinc, Wires. See WIRES, Aluminium-Magnesium-Zinc, Cracks, Stress corrosion
- STRESS CORROSION, Cracks, Mild steel, Pressure vessels, Dye production. See DYES, Production, Pressure vessels, Steel, Mild, Cracks, Stress corrosion
- STRESS CORROSION, Cracks, Steel. See STEEL, Cracks, Stress corrosion
- STRESS CORROSION, Fracture, Low alloy steel. See STEEL, Low alloy, Fracture, Stress corrosion
- STRESS CORROSION, Fracture, Nickel-Molybdenum-Chromium-Steel. See STEEL-CHROMIUM-MOLYB-DENUM-NICKEL, Fracture, Stress corrosion
- STRESS-CRACKING, Castings. See CASTINGS, Stress-cracking
- STRESS GRADING, Wood. See WOOD, Stress grading
- STRESS-OPTICAL COEFFICIENT, Solutions, Polymers. See POLYMERS, Solutions, Stress-optical coefficient
- STRESS RELAXATION, Steel. See STEEL, Stress relaxation
- STRESS RELAXATION TESTS, Steel, Bolts, Joints, Steam plant. See STEAM, Plant, Joints, Bolts, Steel, Stress relaxation tests
- STRESS RELIEVED WELDED STAINLESS STEEL, Pipes. See PIPES, Steel, Stainless, Welded, Stress relieved
- STRESS RELIEVING, Castings. See CASTINGS, Stress relieving
- STRESS RELIEVING, Plates, Cores, Transformers. See TRANSFORMERS, Cores, Plates, Stress relieving
- STRESS RELIEVING, Steel-Manganese, Plates. See PLATES, Steel-Manganese, Stress relieving
- STRESS RELIEVING, Welded equipment, Refineries, Petroleum. See PETROLEUM, Refineries, Equipment, Welded, Stress relieving
- STRESS RELIEVING, Welded steel, Membrane walls, Furnaces, Water tube boilers. See BOILERS, Water tube, Furnaces, Membrane walls, Steel, Welded, Stress relieving
- STRESS RELIEVING, Welded steel structures. See STRUCTURES, Steel, Welded, Stress relieving
- STRESS-STRAIN RELATIONSHIPS, Concrete. See CONCRETE, Stress-strain relationships
- STRESS-STRAIN RELATIONSHIPS, Cords. See CORDS, Stress-strain relationships
- STRESS-STRAIN RELATIONSHIPS, Creep, Circular holes, Plates. See PLATES, Holes, Circular, Creep, Stress-Strain relationships
- STRESS-STRAIN RELATIONSHIPS, Creep, Metals. See METALS, Creep, Stress-Strain relationships
- STRESS-STRAIN RELATIONSHIPS, Extrusion. See EXTRUSION, Stress-strain relationships
- STRESS-STRAIN RELATIONSHIPS, Filament man-made fibre yarns. See YARNS, Man-made fibres, Filament, Stress-Strain relationships
- STRESS-STRAIN RELATIONSHIPS, Filament yarns. See YARNS, Filament, Stress-strain relationships
- STRESS-STRAIN RELATIONSHIPS, Graphite, Nuclear reactors. See NUCLEAR REACTORS, Graphite, Stress-Strain relationships
- STRESS-STRAIN RELATIONSHIPS, Man-made fibres, Thread, Sewing, Making-up, Fabrics. See FABRICS, Making-up, Sewing, Thread, Man-made fibres, Stress-Strain relationships
- STRESS-STRAIN RELATIONSHIPS, Nimonic 90. See NIMONIC 90, Stress-Strain relationships
- STRESS-STRAIN RELATIONSHIPS, Structures. See STRUCTURAL ANALYSIS
- STRESS-STRAIN RELATIONSHIPS, Structures. See STRUCTURES, Stress-Strain relationships
- STRESS-STRAIN RELATIONSHIPS, Thermoplastics. See THERMOPLASTICS, Stress-strain relationships
- STRESS-WAVE PROPAGATION THEORY, Dynamic stresses analysis, Bars. See BARS, Stresses, Dynamic, Analysis, Stress-wave propagation theory
- STRESS-WAVE PROPAGATION THEORY, Dynamic stresses analysis, Stepped shafts. See SHAFTS, Stepped, Stresses, Dynamic, Analysis, Stress-wave propagation theory
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- STRESSES, Biaxial, Plastics. See PLASTICS, Stresses, Biaxial
- STRESSES, Bonds, Sandwich plates. See PLATES, Sandwich, Bonds, Stresses
- STRESSES, Buttress dams. See DAMS, Buttress, Stresses
- STRESSES, Cast iron T-joints, Pipes. See PIPES, Joints, T-, Iron, Cast, Stresses
- STRESSES, Circular holes, Cylindrical shells. See SHELLS, Cylindrical, Holes, Circular, Stresses
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- STRESSES, Circular inclusions, Plates. See PLATES, Inclusions, Circular, Stresses
- STRESSES, Complex, Creep, Copper. See COPPER, Creep, Complex stresses
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- STRESSES, Distribution, Indentation, Hardness, Metals. See METALS, Hardness, Indentation, Stress distribution
- STRESSES, Distribution, Rock mechanics. See ROCK, Mechanics, Stress distribution
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- STRESSES, Dynamic, Stepped shafts. See SHAFTS, Stepped, Stresses, Dynamic
- STRESSES, Effective, Clay, Soil. See SOIL, Clay, Effective stresses
- STRESSES, End zones, Pretensioned concrete, I-section beams. See BEAMS, I-section, Concrete, Pretensioned, End zones, Stresses
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- STRESSES, Residual, Effect on stress corrosion, Aluminium alloys. See ALUMINIUM, Alloys, Stress corrosion, Effect of residual stresses
- STRESSES, Residual, Heat treated steel. See STEEL, Heat treated, Residual stresses
- STRESSES, Residual, Welded steel, I-section beams. See BEAMS, I-section, Steel, Welded, Stresses, Residual
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- STRESSES, Tensile, Concrete rectangular beams. See BEAMS, Rectangular, Concrete, Stresses, Tensile
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- STRESSES, Tensile, Cracks, Eutectic alloys, Copper-Aluminium. See ALUMINIUM-COPPER, Eutectic alloys, Cracks, Tensile stresses
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- STRESSES, Thermal, Circular bore rectangular pipes. See PIPES, Rectangular, Circular bore, Stresses, Thermal
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SUGAR

Related Headings:

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GLUCOSE
GLYCOSIDES
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SULPHATES

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ANHYDRITE

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SULPHATION, Calcium carbonate. See **CALCIUM CARBONATE, Sulphation**

SULPHATION, Calcium hydroxide. See **CALCIUM HYDROXIDE, Sulphation**

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- SULPHIDES**, Blast furnace slag cement. See **CEMENT**, Blast furnace slag, Sulphides
- SULPHIDES**, Flotation, Chrysocolla. See **CHRYSOCOLLA**, Flotation, Sulphides
- SULPHIDES**, Ores. See **ORES**, Sulphides
- SULPHIDES**, Ores, Copper. See **COPPER**, Ores, Sulphides
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- SULPHUR**, Effect on cracking, Welding, Low alloy steel, Sheets. See **SHEETS**, Steel, Low alloy, Welding, Cracking, Effect of sulphur
- SULPHUR**, Effect on free radicals, Aromatic hydrocarbons. See **HYDROCARBONS**, Aromatic, Free radicals, Effect of sulphur
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- SULPHUR**, Removal, Casting, Nodular iron. See **IRON**, Nodular, Casting, Sulphur removal
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- SULPHUR COMPOUNDS**, Air pollution. See **AIR POLLUTION**, Sulphur compounds
- SULPHUR COMPOUNDS**, Brighteners, Nickel electroplating. See **ELECTROPLATING**, Nickel, Brighteners, Sulphur compounds
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- SULPHUR DIOXIDE**, Dissolved, Sulphuric acid solutions, Gold anodes. See **ANODES**, Gold, Sulphuric acid solutions, Dissolved sulphur dioxide
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SUPERCHARGERS

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STRONTIUM TITANATES, Superconductivity

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SUPPORTS, Face, Coal mining. See **PIT-PROPS**

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SURFACE ACTIVE AGENTS

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HEAT SHIELDS, Ablation, Surface active agents

SURFACE ACTIVE AGENTS, Additives, Lubricating oils.

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EXTRACTION, Liquid, Drops, Formation, Mass transfer, Effect of surface active agents

SURFACE ACTIVE AGENTS, Effect on mass transfer,

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SURFACE ACTIVE AGENTS, Grinding, Clinker compounds, Cement. See **CEMENT, Clinker compounds, Grinding, Surface active agents**

SURFACE ACTIVE AGENTS, Inhibitors, Hydrochloric acid, Corrosion, Aluminium. See **ALUMINIUM, Corrosion (Hydrochloric acid) Inhibitors, Surface active agents**

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TANTALUM, Capacitors. See CAPACITORS, Tantalum

TANTALUM, Chemical engineering plant. See CHEMICAL ENGINEERING, Plant, Tantalum

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TANTALUM OXIDE, Films. See **FILMS, Tantalum oxide**

TANZANIA

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RAILWAYS, East Africa

TAP CHANGERS, Parallel operation, Transformers. See

TRANSFORMERS, Parallel operation, Tap changers

TAP CHANGERS, Transformers, Power substations. See

POWER SUBSTATIONS, Transformers, Tap changers

TAPE, Labels. See **LABELS, Tape**

TAPE, Magnetic, Data storage. See **DATA STORAGE, Magnetic tape**

TAPE, Magnetic, Digital pen recorders. See **PEN RECORDERS, Digital, Magnetic tape**

TAPE, Magnetic, Random access, Storage units, Computers. See **COMPUTERS, Storage units, Random access, Magnetic tape**

TAPE, Magnetic, Recording, Cathode ray oscilloscopes, Display, Waveforms. See **WAVEFORMS, Display, Cathode ray oscilloscopes, Recording, Magnetic tape**

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TAPERED SHELLS. See **SHEELS, Tapered**

TAPIOCA. See **CASSAVA**

TAPIOLA

See

ARCHITECTURE, Tapiola

TAPPE TS, Engines, Motor vehicles. See **MOTOR VEHICLES, Engines, Tappets**

TAPPING, Power transmission lines. See **POWER TRANSMISSION LINES, Tapping**

TAPPING, Ribs, Wings, Military aircraft. See **AIRCRAFT, Military, Wings, Ribs, Tapping**

TAPS, Brass, Water. See **WATER, Taps, Brass**

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CREOSOTE

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HYDROELECTRIC POWER, Tasmania

TASTING TESTS, White fish. See FISH, White, Sensory testing**TATEBAYASHI**

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TEACHING AIDS, Engineering drawing. See ENGINEERING, Drawing, Teaching aids

TEACHING AIDS, Flow, Fluids. See FLUIDS, Flow, Teaching aids

TEACHING AIDS, Navigation, Ships. See SHIPS, Navigation, Education, Teaching aids

TEACHING AIDS, Photographic films. See FILMS, Photographic, Teaching aids

TEACHING AIDS, Models, Petrol engine testing. See PETROL, Engines, Testing, Models, Teaching aids

TEACHING AIDS, Projectors. See PROJECTORS, Teaching aids

TEACHING AIDS, Sound reproduction equipment. See SOUND, Reproduction, Equipment, Teaching aids

TEACHING AIDS, Switching circuits. See SWITCHING CIRCUITS, Teaching aids

TEACHING AIDS, Technical education. See TECHNICAL EDUCATION, Teaching aids

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TECHNICAL EDUCATION

Related Headings:

APPRENTICESHIPS

TEACHING

VOCATIONAL GUIDANCE

TECHNICAL EDUCATION—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Particular localities

Great Britain

West Germany

India

Grants

Methods

Teaching

Training officers

Audio-visual aids

Examinations

Curriculum

Communication studies

Types of course

Special courses

Grade or system

Adult retraining

Secondary schools

Universities

Disabled persons

Spastics

TECHNICAL EDUCATION, A.C. servomechanisms. See SERVOMECHANISMS, A.C., Education

TECHNICAL EDUCATION, Adult retraining

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TECHNICAL EDUCATION, Agricultural machinery. See AGRICULTURAL MACHINERY, Education

TECHNICAL EDUCATION, Air conditioning. See AIR CONDITIONING, Education

TECHNICAL EDUCATION, Air transport. See AIR TRANSPORT, Education

TECHNICAL EDUCATION, Aircraft, Spreading, Agricultural chemicals. See AGRICULTURAL CHEMICALS, Spreading, Aircraft, Training

TECHNICAL EDUCATION, Aircraft engineering. See AIRCRAFT, Engineering, Education

TECHNICAL EDUCATION, Architect—Engineer relationships. See ARCHITECT—ENGINEER RELATIONSHIPS, Education

TECHNICAL EDUCATION, Architecture. See ARCHITECTURE, Education

TECHNICAL EDUCATION, Astronautics. See ASTRONAUTICS, Education

TECHNICAL EDUCATION, Audio-visual aids

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TECHNICAL EDUCATION, Canning, Food. See **FOOD, Canning, Education**

TECHNICAL EDUCATION, Catering. See **CATERING, Education**

TECHNICAL EDUCATION, Ceramics. See **CERAMICS, Education**

TECHNICAL EDUCATION, Chemical engineering. See **CHEMICAL ENGINEERING, Education**

TECHNICAL EDUCATION, Chemical technology. See **CHEMICAL TECHNOLOGY, Education**

TECHNICAL EDUCATION, Chemistry. See **CHEMISTRY, Education**

TECHNICAL EDUCATION, Civil engineering. See **CIVIL ENGINEERING, Education**

TECHNICAL EDUCATION, Clothing manufactures. See **CLOTHING, Manufactures, Education**

TECHNICAL EDUCATION, Coal mining. See **COAL, Mining, Education**

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TECHNICAL EDUCATION, Communication studies

Turning scientists into free thinkers. A. J. Kirkman. *Nature*, 206 (26 Jun 65) p.1277-80

TECHNICAL EDUCATION, Computers. See **COMPUTERS, Education**

TECHNICAL EDUCATION, Computer operators. See **COMPUTERS, Operators, Technical education**

TECHNICAL EDUCATION, Concrete structures. See **STRUCTURES, Concrete, Education**

TECHNICAL EDUCATION, Control systems, Capstan lathes. See **LATHES, Capstan, Control systems, Education**

TECHNICAL EDUCATION, Control systems, Machine tools. See **MACHINE TOOLS, Control systems, Education**

TECHNICAL EDUCATION, Cotton manufactures. See **COTTON, Manufactures, Education**

TECHNICAL EDUCATION, Dairy industry. See **DAIRY INDUSTRY, Education**

TECHNICAL EDUCATION, Data processing. See **DATA PROCESSING, Education**

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Making the disabled able once more: remarkable work at Queen Elizabeth Training College. R. McKinnon. *Works Management*, 18 (Feb 65) p.4-6. il.

TECHNICAL EDUCATION, Driving, Articulated vehicles. See **MOTOR VEHICLES, Articulated, Driving, Education**

TECHNICAL EDUCATION, Driving, Electric locomotives. See **LOCOMOTIVES, Electric, Driving, Training**

TECHNICAL EDUCATION, Electric power systems. See **ELECTRIC POWER SYSTEMS, Education**

TECHNICAL EDUCATION, Electric railways. See **RAILWAYS, Electric, Education**

TECHNICAL EDUCATION, Electrical engineering. See **ELECTRICAL ENGINEERING, Education**

TECHNICAL EDUCATION, Electrical engineering materials. See **ELECTRICAL ENGINEERING, Materials, Education**

TECHNICAL EDUCATION, Electrical engineering technicians. See **ELECTRICAL ENGINEERING, Technicians, Education**

TECHNICAL EDUCATION, Electrical installations. See **ELECTRICAL INSTALLATIONS, Education**

TECHNICAL EDUCATION, Electrical naval engineering. See **NAVAL ENGINEERING, Electrical, Education**

TECHNICAL EDUCATION, Electronic equipment maintenance. See **ELECTRONIC EQUIPMENT, Maintenance, Education**

TECHNICAL EDUCATION, Electronic systems, Naval aircraft. See **AIRCRAFT, Naval, Electronic systems, Training**

TECHNICAL EDUCATION, Electronics. See **ELECTRONICS, Education**

TECHNICAL EDUCATION, Electronics, Air Forces. See **AIR FORCES, Electronics, Education**

TECHNICAL EDUCATION, Engineering. See **ENGINEERING, Education**

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TELEMETERING, Town gas distribution. See GAS (Town) Distribution, Control systems, Telemetering

TELEMETERING, Water pumping stations. See WATER, Pumping, Stations, Control systems, Telemetering

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FACSIMILE TRANSMISSION

TELEX

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TELEPRINTING, Communications, Manned flights, Astronautics. *See ASTRONAUTICS, Flights, Manned, Communications, Teleprinting*

TELEPRINTING, Communications, Off shore drilling, Natural gas. *See GAS, Natural, Drilling, Off shore, Communications, Teleprinting*

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TELESCOPIC SIGHTS, Firearms. See FIREARMS, Sights, Telescopic**TELEVISION**

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TELEVISION

Related Headings:

TELEPHONY, Visual

TELEVISION—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

History

Particular countries

Underdeveloped countries

Transmission

V.H.F.

U.H.F.

Signals

Picture quality

Recording

Equipment

Cameras

Transmitters

Frequency translators

Receivers

Broadcasts

Stations

Studios

Material televised

Films

Systems

Wired

Pay

Digital

Colour

Closed circuit

Applications

Teaching aids

TELEVISION, Astronautics research. See ASTRONAUTICS, Research, Television

TELEVISION, Astronautics vehicles. See ASTRONAUTICS, Vehicles, Television

TELEVISION, Cameras

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Europe's largest tv system in British Defence Ministry.

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TELEVISION, Closed circuit, Inspection, Sewers. See SEWERS, Inspection, Television, Closed circuit

TELEVISION, Closed circuit, Knitting machine studies. See KNITTING, Machines, Studies, Television, Closed circuit

TELEVISION, Closed circuit, Loading control, Ferries, Motor cars. See MOTOR CARS, Ferries, Loading, Control, Television, Closed circuit

TELEVISION, Closed circuit, Proton monitoring, Irradiation, Tumors, Brain. See BRAIN, Tumors, Irradiation (Protons) Monitoring, Television, Closed circuit

TELEVISION, Closed circuit, Recording, Film

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- TEMPERATURE, Catalytic chemical reactors, Gases. See GASES, Reactions, Chemical reactors, Catalytic, Temperature
- TEMPERATURE, Characteristic
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- TEMPERATURE, Characteristic, Aluminium. See ALUMINIUM, Temperature, Characteristic
- TEMPERATURE, Characteristic, Lead. See LEAD, Temperature, Characteristic
- TEMPERATURE, Characteristic, Silver. See SILVER, Temperature, Characteristic
- TEMPERATURE, Clay, Effect on strength, Bricks. See BRICKS, Strength, Effect of clay temperature
- TEMPERATURE, Coefficient, Crystallisation, α Chloronaphthalene, Solutions, Polythene. See POLYTHENE, Solutions (α Chloronaphthalene) Crystallisation, Temperature coefficient
- TEMPERATURE, Coefficient, Open-circuit voltages, Manganese dioxide anodes, Voltaic cells. See CELLS, Voltaic, Anodes, Manganese dioxide, Open-circuit voltages, Temperature coefficients
- TEMPERATURE, Coefficient, Resistance, Chromium-Nickel films. See FILMS, Chromium-Nickel, Resistance, Temperature coefficient
- TEMPERATURE, Colour, Natural lighting. See LIGHTING, Natural, Colour temperature
- TEMPERATURE, Combustion, Particles, Coal. See COAL, Particles, Combustion, Temperature
- TEMPERATURE, Containers, Road transport, Frozen fish. See FISH, Frozen, Road transport, Containers, Temperature
- TEMPERATURE, Continuous flow cryostats, Helium. See HELIUM, Cryostats, Continuous flow, Temperature
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- TEMPERATURE, Effect on crystallisation, Silicate, Glass. See GLASS, Silicate, Crystallisation, Effect of temperature
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- TEMPERATURE, Effect on Knight shift, Liquid sodium. See SODIUM, Liquid, Knight shift, Effect of temperature
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- TEMPERATURE, Effect on plastic deformation, Single crystals, Zeta phase germanium-copper. See COPPER-GERMANIUM, Zeta phase, Crystals, Single, Plastic deformation, Effect of temperature
- TEMPERATURE, Effect on salt solutions, Corrosion, Mild steel, Pipes. See PIPES, Steel, Mild, Corrosion, Salt solutions, Effect of solution temperature
- TEMPERATURE, Effect on saturation magnetisation. See MAGNETISATION, Saturation, Effect of temperature
- TEMPERATURE, Effect on thermoelectric power, Copper alloys. See COPPER, Alloys, Thermoelectric power, Effect of temperature
- TEMPERATURE, Effect on thermoelectric power, Silver alloys. See SILVER, Alloys, Thermoelectric power, Effect of temperature

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- TENSILE YIELD**, Shock loaded aluminium. See **ALUMINIUM**, Shock loaded, Yield, Tensile
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- TENSILE YIELD**, Steel. See **STEEL**, Yield stress, Tensile tests
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- TENSION-TORQUE RELATIONSHIPS**, Tightening, Bolts. See **BOLTS**, Tightening, Torque—Tension relationships
- TENSOMETERS**, Extrusion studies, Metals. See **METALS**, Extrusion, Studies, Tensometers
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- TERMINAL BOXES**, Electrical cables. See **CABLES**, Electric, Terminal boxes
- TERMINAL BUILDINGS**, Air transport, Freight. See **FREIGHT**, Transport, Air, Terminal buildings
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- TERMINOLOGY**, Composing (Printing) See **COMPOSING** (Printing) Terminology
- TERMINOLOGY**, Data processing. See **DATA PROCESSING**, Terminology
- TERMINOLOGY**, Double exposure, Photography. See **PHOTOGRAPHY**, Double exposure, Terminology
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- TERMINOLOGY**, Sound. See **SOUND**, Terminology
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- TERMINOLOGY**, Textiles. See **TEXTILES**, Terminology
- TERNARY FISSION**, Nuclei, Uranium-235. See **URANIUM-235**, Nuclei, Fission, Ternary
- TERNARY LOGICAL ELEMENTS**, Computers. See **COMPUTERS**, Logical elements, Ternary
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- TERRITORIAL LIMITS**, Fishing. See **FISHING**, Territorial limits
- TERYLENE**, Fabrics. See **FABRICS**, Terylene
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MAGNETIC TESTING

PENETRANT FLAW TESTING

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TETRAMETHYL LEAD, Tankers, Ships. See TANKERS,

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BED LINEN

BLANKETS

CARDING

CARPETS

COMBING

CORDAGE

CORDS

COTTON

FABRICS

HARD FIBRES

HEMP

JUTE

KAPOK

KNITTING

LINEN

MAN-MADE FIBRES

RAGS

SEWING

SILK

WADDING

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Dyeing
Dyes
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Types of textiles
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- THERMAL EXPANSION, Anisotropic, Single crystals, Zinc. See ZINC, Crystals, Single, Thermal expansion, Anisotropic
- THERMAL EXPANSION, Borosilicate glass, Seals. See SEALS, Glass, Borosilicate, Thermal expansion
- THERMAL EXPANSION, Bowing, Fuel elements, Nuclear reactors. See NUCLEAR REACTORS, Fuel elements, Bowing, Thermal expansion
- THERMAL EXPANSION, Caesium iodide. See CAESIUM IODIDE, Thermal expansion
- THERMAL EXPANSION, Fused silica. See SILICA, Fused, Thermal expansion
- THERMAL EXPANSION, Germanium. See GERMANIUM, Thermal expansion
- THERMAL EXPANSION, Graphite, Gas cooled nuclear reactors. See NUCLEAR REACTORS, Gas cooled, Graphite, Thermal expansion
- THERMAL EXPANSION (Irradiation) Determination, Dilatometers, Interferometric**
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- THERMAL EXPANSION, Moulds, Investment casting. See CASTING, Investment, Moulds, Thermal expansion
- THERMAL EXPANSION, Rubber. See RUBBER, Thermal expansion
- THERMAL EXPANSION, Silicon. See SILICON, Thermal expansion
- THERMAL EXPANSION, Single crystals, Rubidium bromide. See RUBIDIUM BROMIDE, Crystals, Single, Thermal expansion
- THERMAL EXPANSION, Single crystals, Sodium fluoride. See SODIUM FLUORIDE, Crystals, Single, Thermal expansion
- THERMAL EXPANSION, Softening point determination, Asphalt. See ASPHALT, Softening point, Determination, Thermal expansion
- THERMAL EXPANSION, Zinc chloride, Glass. See GLASS, Zinc chloride, Thermal expansion
- THERMAL EXPANSION, Zinc phosphate refractories. See ZINC PHOSPHATE, Refractories, Thermal expansion
- THERMAL EXPANSION, Zinc vanadate refractories. See ZINC VANADATE, Refractories, Thermal expansion
- THERMAL FATIGUE, Cracking, Steel, Casings, Steam turbines. See STEAM, Turbines, Casings, Steel, Cracking, Fatigue, Thermal
- THERMAL FATIGUE, High temperature alloys. See HIGH TEMPERATURE, Alloys, Thermal fatigue
- THERMAL FATIGUE, Testing**
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- THERMAL HYDROCRACKING, Cresol. See CRESOL, Hydrocracking, Thermal
- THERMAL INSULATING MATERIALS. See INSULATING MATERIALS, Thermal
- THERMAL INSULATING MATERIALS, Air conditioning plant. See AIR CONDITIONING, Plant, Insulating materials, Thermal
- THERMAL INSULATING MATERIALS, Cryogenics. See CRYOGENICS, Insulating materials
- THERMAL INSULATING MATERIALS, Expanded glass. See GLASS, Expanded, Thermal insulating materials
- THERMAL INSULATING MATERIALS, Foundry practice. See FOUNDRY PRACTICE, Insulating materials
- THERMAL INSULATING MATERIALS, Ventilation equipment. See VENTILATION, Equipment, Insulating materials, Thermal
- THERMAL INSULATION. See INSULATION, Thermal
- THERMAL INSULATION, Aerated concrete, Blocks, Walls, Buildings. See BUILDINGS, Walls, Blocks, Concrete, Aerated, Insulation, Thermal
- THERMAL INSULATION, Buildings. See BUILDINGS, Insulation, Thermal
- THERMAL INSULATION, Cold stores. See COLD STORES, Insulation
- THERMAL INSULATION, Concrete, Flat roofs. See ROOFS, Flat, Concrete, Insulation, Thermal
- THERMAL INSULATION, Display cabinets, Frozen food. See FOOD, Frozen, Display cabinets, Insulation
- THERMAL INSULATION, Fish rooms, Trawlers. See TRAWLERS, Fish rooms, Insulation
- THERMAL INSULATION, Fishing vessels. See FISHING, VESSELS, Insulation, Thermal
- THERMAL INSULATION, Floors. See FLOORS, Insulation, Thermal
- THERMAL INSULATION, Gas turbines, Aircraft. See AIRCRAFT, Gas turbines, Insulation, Thermal
- THERMAL INSULATION, Insets, Windows, Housing. See HOUSING, Windows, Insets, Insulation, Thermal
- THERMAL INSULATION, Liquefied gases. See GASES, Liquefied, Insulation, Thermal
- THERMAL INSULATION, Multi-flue steel chimneys, Boilers. See BOILERS, Chimneys, Steel, Multi-flue, Insulation, Thermal
- THERMAL INSULATION, Pipes. See PIPES, Insulation, Thermal
- THERMAL INSULATION, Pipes, Chemical engineering plant. See CHEMICAL ENGINEERING, Plant, Pipes, Insulation, Thermal
- THERMAL INSULATION, Pipes, Steam supplies, Textile manufactures. See TEXTILES, Manufactures, Steam supplies, Pipes, Insulation, Thermal
- THERMAL INSULATION, Pressure vessels, Nuclear reactors. See NUCLEAR REACTORS, Pressure vessels, Insulation, Thermal
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- THERMAL INSULATION, Re-entry into atmosphere, Astronautics vehicles. See ASTRONAUTICS, Vehicles, Re-entry into atmosphere, Heating, Insulation
- THERMAL INSULATION, Refrigerated commercial vehicles. See VEHICLES, Commercial, Refrigerated, Insulation
- THERMAL INSULATION, Refrigeration. See REFRIGERATION, Insulation
- THERMAL INSULATION, Refrigerators. See REFRIGERATORS, Insulation
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- THERMAL MEASUREMENT, Head losses, Turbines, Water. See WATER, Turbines, Head losses, Measurement, Thermal
- THERMAL MOTION, Liquids. See LIQUIDS, Thermal motion
- THERMAL NOISE, Aerials, Microwave radio. See RADIO, Microwave, Aerials, Noise, Thermal
- THERMAL RADIATIONS, Shields, Copper, Cryogenics. See CRYOGENICS, Thermal radiation, Shields, Copper
- THERMAL SHOCK, Cracks, Ceramics, Gas discharge tubes. See ELECTRON TUBES, Gas discharge, Ceramics, Cracks, Thermal shock
- THERMAL SHOCK, Cracks, Glass discharge tubes. See ELECTRON TUBES, Gas discharge, Glass, Cracks, Thermal shock
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THERMAL STORAGE, Heating, Cathedrals. See **CATHERALS**, Heating, Thermal storage

THERMAL STORAGE, Heating, Housing. See **HOUSING**, Heating, Thermal storage

THERMAL STORAGE, Heating, Schools. See **SCHOOLS**, Heating, Thermal storage

THERMAL STRESSES, Aircraft wings. See **AIRCRAFT**, Wings, Thermal stresses

THERMAL STRESSES, Circular bore rectangular pipes. See **PIPES**, Rectangular, Circular bore, Stresses, Thermal

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THERMAL STRESSES, Diesel engines, Ships. See **SHIPS**, Diesel engines, Thermal stresses

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THERMAL STRESSES, Steel-Aluminium, Laminates, Web spars, Structures, Astronautics vehicles. See **ASTRONAUTICS**, Vehicles, Structures, Spars, Web, Laminates, Steel-Aluminium, Thermal stresses

THERMAL STRESSES, Steel-Copper, Laminates, Web spars, Structures, Astronautics vehicles. See **ASTRONAUTICS**, Vehicles, Structures, Spars, Web, Laminates, Steel-Copper, Thermal stresses

THERMAL STRESSES, Thick walled cylinders. See **CYLINDERS**, Thick walled, Thermal stresses

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THERMAL TIME CONSTANTS, Heating, Rolling stock (Passenger, Railways) See **ROLLING STOCK** (Passenger, Railways) Heating, Thermal time constants

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THERMALISATION, Neutrons, Beryllium moderated nuclear reactors. See **NUCLEAR REACTORS**, Beryllium moderated, Neutrons, Slowing-down

THERMALISATION, Neutrons, Nuclear reactors. See **NUCLEAR REACTORS**, Neutrons, Slowing down

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THERMISTOR RESISTANCE-CAPACITANCE OSCILLATORS, Frequency to temperature convertors. See **FREQUENCY-TO-TEMPERATURE CONVERTORS**, Capacitance, Thermistor

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THERMISTORS, Electric motor protection. See **ELECTRIC MOTORS**, Protection, Thermistors

THERMISTORS, Electric motors, Quarrying. See **QUARRYING**, Electric motors, Thermistors

THERMISTORS, Electric motors, Tarmacadam production. See **TARMACADAM**, Production, Electric motors, Thermistors

THERMISTORS, Gauges, Vacuum. See **VACUUM**, Gauges, Thermistors

THERMISTORS, Level indicators, Liquids, Cryogenic vessels, Cameras, X-ray diffraction. See **X-RAYS**, Diffraction, Cameras, Cryogenic vessels, Liquids, Level indicators, Thermistors

THERMISTORS, Thermal conductivity measurement, Single crystals, Silicon. See **SILICON**, Crystals, Single, Thermal conductivity, Measurement, Thermistors

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THERMOCOUPLES, Potentiometer, Temperature measurement, Containers, Road transport, Frozen fish. See **FISH**, Frozen, Road transport, Containers, Temperature, Measurement, Thermocouples, Potentiometer

THERMOCOUPLES, Psychrometers, Mining. See **MINING**, Psychrometers, Thermocouples

THERMOCOUPLES, Temperature control. See **TEMPERATURE**, Control, Thermocouples

THERMOCOUPLES, Temperature measurement, Rotating-cylinder viscometers. See **VISCOMETERS**, Rotating-cylinder, Temperature, Measurement, Thermocouples

THERMOCOUPLES, Temperature variations measurements, Cans, Fuel elements, Magnox nuclear reactors. See **NUCLEAR REACTORS**, Magnox, Fuel elements, Cans, Temperature, Variations, Measurements, Thermocouples

THERMODIELECTRIC EFFECT

 Related Headings:

INORGANIC CHEMICALS, Aqueous solutions, Freezing, Potential

THERMODYNAMICS

 Related Headings:

ACTIVITY COEFFICIENTS

CONTROL VOLUME

ENTROPY

EQUATIONS OF STATE

EQUILIBRIA, Phase

THERMODYNAMICS, Carbonisation, Coal. See **COAL**, Carbonisation, Thermodynamics

- THERMODYNAMICS, Chemistry.** See **CHEMISTRY, Thermodynamics**
- THERMODYNAMICS, Exhaust, Gas turbines.** See **GAS TURBINES, Exhaust, Thermodynamics**
- THERMODYNAMICS, Exhaust, Multifuel engines.** See **ENGINES, Multifuel, Exhaust, Thermodynamics**
- THERMODYNAMICS, Hindered rotation, Molecules, Gases.** See **GASES, Molecules, Rotation, Hindered, Thermodynamics**
- THERMODYNAMICS, Irreversible, Melt Crystallisation rate, Polythene.** See **POLYTHENE, Crystallisation (Melt) Rate, Thermodynamics, Irreversible**
- THERMODYNAMICS, Mechanical engineering.** See **MECHANICAL ENGINEERING, Thermodynamics**
- THERMODYNAMICS, Melting, Defect crystals, Polymers.** See **POLYMERS, Crystals, Defect, Melting, Thermodynamics**
- THERMODYNAMICS, Molten lead-zinc.** See **LEAD-ZINC, Molten, Thermodynamics**
- THERMODYNAMICS, Neutron scattering, Lattice vibrations, Crystals.** See **CRYSTALS, Lattice vibrations, Neutron scattering, Thermodynamics**
- THERMODYNAMICS, Oxidation, Aqueous solutions, Metal anodes.** See **ANODES, Metals, Aqueous solutions, Oxidation, Thermodynamics**
- THERMODYNAMICS, Polymers solutions.** See **POLYMERS, Solutions, Thermodynamics**
- THERMODYNAMICS, Slowing down, Neutrons, Nuclear reactors.** See **NUCLEAR REACTORS, Neutrons, Slowing down, Thermodynamics**
- THERMODYNAMICS, Synthetic tannins.** See **TANNINS, Synthetic, Thermodynamics**
- THERMODYNAMICS, Vacancies, Binary alloys.** See **ALLOYS, Binary, Vacancies, Thermodynamics**
- THERMOELECTRIC POWER, Ice.** See **ICE, Thermoelectric power**
- THERMOELECTRIC REFRIGERATION EQUIPMENT, Submarines.** See **SUBMARINES, Refrigeration equipment, Thermoelectric**
- THERMOELECTRICITY**
 Related Headings:
 COPPER, Alloys, Thermoelectric power
 COPPER-NICKEL, Thermoelectric power
 IRON GROUP METAL MONOSILICIDES, Thermoelectric power
 METALS, Liquid, Thermoelectric power
 SAPPHIRES, Artificial, Crystals, Single, Thermoelectric power
 SILVER, Alloys, Thermoelectric power
 THORIUM, Thermoelectric power
- THERMOELECTRICITY, Air conditioning plant.** See **AIR CONDITIONING, Plant, Thermoelectricity**
- THERMOELECTRICITY, Cooling.** See **COOLING, Thermoelectricity**
- THERMOELECTRICITY, Cooling, Velocity measurement, Water.** See **WATER, Velocity, Measurement, Thermoelectric cooling**
- THERMOELECTRICITY, Cooling, Vessels, Transport, Liquefied gases.** See **GASES, Liquefied, Transport, Vessels, Cooling, Thermoelectric**
- THERMOELECTRICITY, High temperature, Materials, Testing**
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- THERMOELECTRICITY, Power-generation, Cathodic protection, Pipelines.** See **PIPELINES, Cathodic protection, Thermoelectric power generation**
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- THERMOELECTRICITY, Temperature control, Gas cells, Infra-red spectroscopy, Halogenated nitroso compounds.** See **NITROSO COMPOUNDS, Halogenated, Spectroscopy, Infra-red, Gas cells, Temperature, Control, Thermoelectric**
- THERMOELECTRICITY, Vapour detectors, Polar organic chemicals.** See **ORGANIC CHEMICALS, Polar, Vapour, Detectors, Thermoelectric**
- THERMOELECTRICITY, Voltage, Silicon determination, Cast iron.** See **IRON, Cast, Determination of silicon, Thermoelectric voltage measurement**
- THERMOELEMENTS.** See **THERMOCOUPLES**
- THERMOFORMED P.V.C., Containers, Food.** See **FOOD, Containers, P.V.C., Thermoformed**
- THERMOFORMED POLYSTYRENE, Containers, Food.** See **FOOD, Containers, Polystyrene, Thermoformed**
- THERMOFORMING, Aluminium-Zinc, Sheets.** See **SHEETS, Aluminium-Zinc, Thermoforming**
- THERMOFORMING, Polystyrene, Containers.** See **CONTAINERS, Polystyrene, Thermoforming**
- THERMOGRAVIMETRY, Analysis, Carbonisation, Polymers.** See **POLYMERS, Carbonisation, Analysis, Thermogravimetric**
- THERMOMAGNETISM, Cooling.** See **COOLING, Thermomagnetism**
- THERMOMAGNETISM, Cryogenics, Reheated pyrolytic graphite.** See **GRAPHITE, Pyrolytic, Reheated, Cryogenics, Thermomagnetism**
- THERMOMETERS, Chart recorders, Bearings, Ball Linear ballrace.** H. Wilson. *Engineer*, 220 (13 Aug 65) p.261-3. il.
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- THERMOPILES, Selectivity**
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 ACETAL RESINS
 ACRYLONITRILE-BUTADIENE-STYRENE
 ACRYLONITRILE-STYRENE
 CELLULOSE ACETATE

THERMOPLASTICS

Related Headings—cont.

FLUOROCARBONS, Resins

NYLON

P.T.F.E.

P.V.A.

P.V.C.

POLYAMIDES

POLYCARBONATE RESINS

POLYETHYL METHACRYLATE

POLYMETHYL METHACRYLATE

POLYMETHYLENE

POLY-4-METHYL-1-PENTENE

POLYOLEFINES

POLYPHENYLENE OXIDE

POLYPROPYLENE

POLYSTYRENE

POLYSULPHONES

POLYTHENE

POLYVINYL ALCOHOL

VINYL POLYMERS

THERMOPLASTICS, Adhesives. See ADHESIVES, Thermoplastics

THERMOPLASTICS, Adhesives, Packaging. See ADHESIVES, Thermoplastics, Packaging

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THERMOPLASTICS, Film, Packaging, Cheese. See CHEESE, Packaging, Film, Thermoplastics

THERMOPLASTICS, Film, Packaging, Food. See FOOD, Packaging, Film, Thermoplastics

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TOWNS, New. See NEW TOWNS**TOWNSEND DISCHARGE, Ionisation coefficients, Current fluctuations**

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- U.S.S.R.** See RUSSIA
- UBEDA**
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- UGANDA**
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FISHING, Industry, Uganda
RAILWAYS, East Africa
- ULTIMATE LOAD**, Bending, Unbonded prestressed concrete, Beams. See BEAMS, Concrete, Prestressed, Unbonded, Bending, Ultimate load
- ULTIMATE LOAD**, Composite beams. See BEAMS, Composite, Ultimate load
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- ULTIMATE LOAD**, Grillages. See GRILLAGES, Ultimate load
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- ULTRASONICS**, Effect on chemical reactions. See CHEMICAL REACTIONS, Effect of ultrasonics
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- ULTRAVIOLET RADIATION**, Effect on thermophilic bacteria, Sugar production. See **SUGAR**, Production, Bacteria, Thermophilic, Effect of ultraviolet radiation
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- ULTRAVIOLET RADIATION**, Photoluminescence, Cadmium sulphide. See **CADMIUM SULPHIDE**, Photoluminescence, Ultraviolet radiation
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 ULTRAVIOLET SPECTROPHOTOMETERS. See SPECTROPHOTOMETERS, Ultraviolet
 ULTRAVIOLET SPECTROSCOPY. See SPECTROSCOPY, Ultraviolet

ULTRAVIOLET SPECTROSCOPY, Diamond, Type II, Determination. See DIAMONDS, Type II, Determination, Spectroscopy, Ultraviolet

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 ULTRAVIOLET SPECTROSCOPY, Stereo regular polydimethyl-acrylamide. See POLYDIMETHYLACRYLAMIDE, Stereo regular, Spectroscopy, Ultraviolet

ULVERSTON

See

LIBRARIES, Branch, Ulverston

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UNDERDEVELOPED COUNTRIES

See

ELECTRIC POWER SYSTEMS, Underdeveloped countries

FERTILISERS, Production, Underdeveloped countries

FOOD, Preservation, Underdeveloped countries

RADIO, Underdeveloped countries

TECHNOLOGY, Underdeveloped countries

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UNDERFLOOR ELECTRIC HEATING, Office buildings. See OFFICE BUILDINGS, Heating, Electric, Underfloor

UNDERFLOOR THERMAL STORAGE HEATING, Cathedrals. See CATHEDRALS, Heating, Thermal storage, Underfloor

UNDERGROUND CAR PARKS. See CAR PARKS, Underground

UNDERGROUND COMPRESSED AIR STORAGE, Gas turbines, Alternators. See ALTERNATORS, Gas turbines, Compressed air storage, Underground

UNDERGROUND ELECTRIC CABLES. See CABLES, Electric, Underground

UNDERGROUND ELECTRIC CABLES, Telephony. See TELEPHONY, Cables, Underground

UNDERGROUND FEEDERS, Power distribution. See

POWER DISTRIBUTION, Feeders, Underground

UNDERGROUND HYDROELECTRIC POWER STATIONS.

See HYDROELECTRIC POWER STATIONS, Underground

UNDERGROUND INDUSTRIAL BUILDINGS. See

INDUSTRIAL BUILDINGS, Underground

UNDERGROUND NUCLEAR EXPLOSIONS. See NUCLEAR EXPLOSIONS, Underground

UNDERGROUND NUCLEAR EXPLOSIONS, Natural gas production. See GAS, Natural, Production, Nuclear explosions, Underground

UNDERGROUND PIPES. See PIPES, Underground

UNDERGROUND PIPES, District heating. See DISTRICT HEATING, Pipes, Underground

UNDERGROUND POWER SUBSTATIONS. See POWER SUBSTATIONS, Underground

UNDERGROUND POWER TRANSMISSION LINES. See POWER TRANSMISSION LINES, Underground

UNDERGROUND RAILWAYS. See RAILWAYS, Underground

UNDERGROUND RAILWAYS, Transport, Mails. See MAILS, Transport, Railways, Underground

UNDERGROUND STORAGE, Gas (Town) See GAS (Town) Storage, Underground

UNDERGROUND STORAGE, Liquefied natural gas. See GAS, Natural, Liquefied, Storage, Underground

UNDERGROUND STORAGE, Natural gas. See GAS, Natural, Storage, Underground

UNDERGROUND SUPPLY VEHICLES, Coal mining. See COAL, Mining, Supplies, Underground, Vehicles

UNDERGROUND TRAMWAYS. See TRAMWAYS, Underground

UNDERPINNING, Buildings. See BUILDINGS, Underpinning

UNDERSEA MINING, Coal. See COAL, Mining, Undersea

UNDERSEA TUNNELS. See TUNNELS, Undersea

UNDERWATER PILES. See PILES, Underwater

UNDERWATER PIPELINES. See PIPELINES, Underwater

UNDERWATER POWER TRANSMISSION LINES. See POWER TRANSMISSION LINES, Underwater

UNDERWATER RIVER CROSSINGS, Pipelines, Town gas.

See GAS (Town) Pipelines, River crossings, Underwater

UNDERWATER RIVER CROSSINGS, Pipelines, Water. See

WATER, Pipelines, River crossings, Underwater

UNDERWATER SOUND. See SOUND, Underwater

UNDERWATER SOUND PROJECTORS, Echo ranging. See ECHO RANGING, Sound projectors

UNDERWEAR

Related Headings:

FOUNDATION WEAR

UNDERWEAR, Yarns, Cotton, Spinning

Modern Dutch spinning mill for manufacturing hosiery yarns.

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UNION OF SOVIET SOCIALIST REPUBLICS. See RUSSIA UNISTEM, Prefabricated houses. See HOUSES, Prefabricated, Unistem

UNIT OPERATIONS

Related Headings:

ABSORPTION

ADSORPTION

AGGLOMERATION

BOILING

CRYSTALLISATION

DISSOLUTION

DISTILLATION

DRYING, Chemical engineering

EVAPORATION,

FILTRATION

FLOCCULATION

FLOTATION

FLUIDISATION

GRANULATION

UNIT OPERATIONS

Related Headings—*cont.*

SEDIMENTATION
SEPARATION
SIZE REDUCTION
SORPTION
THICKENING
VIBRATION MILLING

UNIT PROCESSES

Related Headings:

ACETYLATION
ACYLATION
ALKYLATION
BROMINATION
CARBONATION
CATALYSTS
CHLORINATION
COAGULATION
CRACKING, Thermal
CYANIDATION
CYCLISATION
DEALKYLATION
DECARBOXYLATION
DEHYDRATION
DEHYDROGENATION
DEPHOSPHORISATION
DEPOLYMERISATION
DESALTING
DIAZOTISATION
ELECTRON EXCHANGE
ESTERIFICATION
FERMENTATION
HYDRATION
HYDROGENATION
HYDROHALOGENATION
HYDROLYSIS
ION EXCHANGE
ISOMERISATION
NEUTRALISATION
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SEPARATION, Chemical
SOLVOLYSIS
SULPHONATION
TRANSESTERIFICATION

UNIT SYSTEM, Prefabricated houses. See HOUSES, Prefabricated, Unit system

UNITED NATIONS. FOOD AND AGRICULTURAL ORGANIZATION. See FOOD AND AGRICULTURAL ORGANIZATION

UNITED STATES

See

AIR CONDITIONING, Plant, Standards, U.S.A.
AIR CONDITIONING, U.S.A.
AIR POLLUTION, Foundries, U.S.A.
AIR POLLUTION, U.S.A.
AIR TRANSPORT, U.S.A.
AIRCRAFT, Industry, U.S.A.
AIRCRAFT, Military, Transport, U.S.A.
AIRCRAFT, Military, U.S.A.
AIRCRAFT, Military, Vertical take-off, U.S.A.
AIRPORTS, Terminal buildings, New York
ARCHITECTURE, New York
ARCHITECTURE, U.S.A.
ASTRONAUTICS, Research, U.S.A.
ASTRONAUTICS, Vehicles, Manufactures, U.S.A.
BOOKS, Printing, Flexography, United States
BUILDINGS, Concrete, Lightweight, U.S.A.
BUILDINGS, Tall, Chicago
CATERPILLAR RESEARCH TECHNICAL CENTRE
CHEMICAL ENGINEERING, Education, U.S.A.

UNITED STATES

See—*cont.*

CONTROL SYSTEMS, Research, U.S.A.
DAMS, Yellowtail
DATA PROCESSING, U.S.A.
ELECTRIC POWER SYSTEMS, U.S.A.
ELECTROPLATING, U.S.A.
ENGINEERING, Education, Secondary schools, U.S.A.
ENGINEERING FOUNDATION, New York
ESSENTIAL OILS, Research, U.S.A.
FABRICS, Finishing, U.S.A.
FISHING, Industry, Alaska
FLATS, Milwaukee
FOOD, Processing, U.S.A.
FOUNDRY PRACTICE, U.S.A.
GAS, Natural, Old Ocean
GAS (Town) Production, U.S.A.
HEALTH CENTRES, Newport Beach
HELICOPTERS, Military, U.S.A.
HOSPITALS, Derby (Connecticut)
HOUSES, Heating, Electric, U.S.A.
HOUSES, Prefabricated, U.S.A.
HOUSING, Cambridge (Mass.)
HOUSING, U.S.A.
HOVERCRAFT, Transport, New York
HYDRAULIC ENGINEERING, Tennessee Valley
HYDRAULIC MACHINERY, U.S.A.
HYDROELECTRIC POWER STATIONS, Pumped storage, Cornwall (New York State)
HYDROELECTRIC POWER STATIONS, Tennessee Valley
ILLINOIS UNIVERSITY
INDUSTRIAL RESEARCH, U.S.A.
KNITTING, Warp, Industry, U.S.A.
LOBSTERS, Fishing, Maine
LOCOMOTIVES, Diesel-electric, U.S.A.
MAGNETOHYDRODYNAMICS, Generators, Research, U.S.A.
MAN-MADE FIBRES, Industry, U.S.A.
MAN-MADE FIBRES, Manufactures, U.S.A.
MINING, Opencast, U.S.A.
MOTOR CARS, Manufactures, U.S.A.
MOTOR COACHES, Operation, U.S.A.
MOTORWAYS, California
NATIONAL SCIENCE FOUNDATION
NUCLEAR POWER STATIONS, Haddam
NUCLEAR POWER STATIONS, Indian Point
NUCLEAR POWER STATIONS, Oyster Creek
NUCLEAR POWER STATIONS, U.S.A.
NUCLEAR REACTORS, Fast, Idaho Falls
NUCLEAR REACTORS, U.S.A.
OFFICE BUILDINGS, U.S.A.
OIL SHALE, Mining, Colorado
PAINT, U.S.A.
PETROLEUM, Production, Old Ocean
PIPELINES, U.S.A.
PLASTICS, Manufactures, U.S.A.
PORTS, Portsmouth (New Hampshire)
POWER STATIONS, Hudson
POWER STATIONS, Tennessee Valley
RAILWAYS, Electric, New York—New Haven
RAILWAYS, San Francisco
RAILWAYS, Underground, Washington
REFRATORIES, Production, U.S.A.
REFUSE, Disposal, U.S.A.
ROADS, California
ROADS, Construction, Equipment, U.S.A.
ROADS, Town & country planning, U.S.A.
STEEL, Production, U.S.A.
TECHNOLOGISTS, Women, U.S.A.
TELEVISION, Colour, United States
TEXTILES, Dyeing, U.S.A.

UNITED STATES

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TRAFFIC ENGINEERING, New York
 TRAINS, Electric, Hudson
 TRANSPORT, Public, U.S.A.
 URANIUM, Ores, Mining, U.S.A.
 WATER, Engineering, California
 WATER, Engineering, U.S.A.
 WATER, Pollution, Detergents, California
 WATER, Resources, Lake Tahoe

UNIVERSAL JOINTS. See JOINTS, Universal

UNIVERSAL JOINTS, Transmissions, Motor cars. See

MOTOR CARS, Transmissions, Joints, Universal

UNIVERSAL JOINTS, Transmissions, Motor vehicles. See

MOTOR VEHICLES, Transmissions, Joints, Universal

UNIVERSEL AIRCRAFT. See AIRCRAFT, Types, Breguet

Unversel

UNIVERSITIES, Aircraft engineering education. See

AIRCRAFT, Engineering, Education, Universities

UNIVERSITIES, Building education. See BUILDING, Education, Universities

UNIVERSITIES, Chemical education. See CHEMISTRY, Education, Universities

UNIVERSITIES, Computers

Computer in the university (summary) R. A. Buckingham.

Computer J., 8 (Apr 65) p.1-7. il. refs.

UNIVERSITIES, Data processing education. See DATA PROCESSING, Education, Universities

UNIVERSITIES, Electrical engineering. See ELECTRICAL ENGINEERING, Education, Universities

UNIVERSITIES, Electrical engineering materials education. See ELECTRICAL ENGINEERING, Materials, Education, Universities

UNIVERSITIES, Engineering, Coal mining. See COAL, Mining, Engineering, Education, Universities

UNIVERSITIES, Engineering design education. See ENGINEERING, Design, Education, Universities

UNIVERSITIES, Engineering education. See ENGINEERING, Education, Universities

UNIVERSITIES, Glass manufactures education. See GLASS, Manufactures, Education, Universities

UNIVERSITIES, Industrial research. See INDUSTRIAL RESEARCH, Universities

UNIVERSITIES, Mechanical engineering design education.

See MECHANICAL ENGINEERING, Design, Education, Universities

UNIVERSITIES, Municipal sanitation education. See SANITATION, Municipal, Education, Universities

UNIVERSITIES, Nuclear energy education. See NUCLEAR ENERGY, Education, Universities

UNIVERSITIES, Nuclear energy research. See NUCLEAR ENERGY, Research, Universities

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ARCHITECTURE, Warwickshire

WASH, The

See

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WASHERS, Plastics, Cutting, Machines

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See iso PENTANE, Production, Hydrochloric acid fumes, Scrubbing, Washers

WASHING

Related Headings:

LAUNDERING

WASHING, Beam, Fabrics.

See FABRICS, Washing, Beam

WASHING, Motor cars.

See MOTOR CARS, Washing

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DETERGENTS

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WASHINGTON

See

RAILWAYS, Underground, Washington

WASHINGTON (Durham County)

See

TOWN PLANNING, Washington (Durham County)

WASTE

Related Headings:

REFUSE

WASTE, Burning, Air pollution. See AIR POLLUTION, Waste burning

WASTE, Coal mining. See COAL, Mining, Waste

WASTE, Nuclear reactors. See NUCLEAR REACTORS, Wastes

WASTE, Paper. See PAPER, Waste

WASTE, Paper, Paper board manufacture. See BOARD, Paper, Manufactures, Waste paper

WASTE, Passion fruit, Pectin production. See PECTIN, Production, Passion fruit, Wastes

WASTE, Plastic manufactures. See PLASTICS, Manufactures, Waste

WASTE, Spinning, Viscose rayon cords, Tyres. See TYRES, Cords, Rayon, Viscose, Spinning, Waste

WASTE, Wool manufactures. See WOOL, Manufactures, Waste

WASTE HEAT, District heating. See DISTRICT HEATING, Waste heat

WASTE HEAT RECOVERY. See HEAT, Recovery

WASTE HEAT RECOVERY, Cooling, Fumes, LD, Oxygen process, Steel production. See STEEL, Production, Oxygen process, LD, Fumes, Cooling, Waste heat recovery

WASTE HEAT RECOVERY, Cooling, Fumes, Oxygen process, Steel production. See STEEL, Production, Oxygen process, Fumes, Cooling, Waste heat recovery

WASTE HEAT RECOVERY, Effluents, Dyeing, Yarns. See YARNS, Dyeing, Effluents, Waste heat recovery

WASTE HEAT RECOVERY, Engines. See ENGINES, Heat recovery

WASTE HEAT RECOVERY, Exhaust, Diesel engines. See DIESEL ENGINES, Exhaust, Waste heat recovery

WASTE HEAT RECOVERY, Gas turbines, Alternators. See ALTERNATORS, Gas turbines, Waste heat recovery

WASTE HEAT RECOVERY, Refining, Petroleum. See PETROLEUM, Refining, Waste heat recovery

WASTE HEAT RECOVERY, Ships. See SHIPS, Waste heat recovery

WASTE HEAT RECOVERY, Steam plant. See STEAM, Plant, Waste heat recovery

WASTE HEAT RECOVERY, Steam plant, Melting, Glass. See GLASS, Melting, Steam plant, Waste heat recovery

WASTE HEAT RECOVERY, Vapours, Solvents, Ovens, Stoving, Paint. See PAINT, Stoving, Ovens, Solvents, Vapours, Waste heat recovery

WASTE PRODUCTS

Related Headings:

SCRAP

WATCH TOWERS, Conversion to houses. See HOUSES, Conversion from watch towers

WATCHES

Benrus precision watches. W. G. Pike. Horological J., 108 (Sep 65) p.14-15. il.

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WATCHES, Cleaning, Machines

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WATCHES, Containers

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WATCHES, Dials, Scales

Design of clock and watch scales. D. Beavis. Horological J., 107 (May 65) p.28-9. il.

WATCHES, Diving. See DIVING, Watches

WATCHES, Electric

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WATCHES, Jewels, Corundum, Artificial

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WATCHES, Manufactures

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WATCHES, Manufactures, Plant layout

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WATCHES, Self-winding

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WATCHKEEPING, Navigation, Ships. See **SHIPS, Navigation, Watchkeeping**

WATER

Unusual waters. G. Ghosh. *Water & Water Engng.*, 68 (Dec 64) p.488-92. refs.

WATER

Related Headings:

AQUEOUS

CONDENSATE

FEEDWATER

HYDROLOGY

ICE

MOISTURE

SOLUTIONS, Aqueous

STEAM

WATER-SUBHEADINGS-Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

*Research**Physical properties*

Motion

Waves

Pressure pulses

Flow

Velocity

Vortices

Cavitation

Jets

Siphons

Colour

Heat transfer

Supercooling

Freezing

Radioactivity

Constituents

Calcium carbonate

Air bubbles

WATER-SUBHEADINGS-Synopsis-cont.*Technical activities*

Analysis

Determination of...

Engineering

Pumping

Pumps

Purification

Filtration

Filters

Coagulation

Distillation

Evaporators

Sterilisation

Extraction

Reclamation

Distribution

Pipes

Mains

Pipelines

Tunnels

Conduits

Storage

Tanks

Towers

Pollution

Use

Resources

Wells

Catchment areas

Supplies

Conservation

Equipment

Taps

Particular uses

Power generation

Turbines

Heating

Cooling media

Landscaping features

Kinds of water by property or use

Supercooled

High purity

Industrial

Tidal

Saline

Heavy

WATER, Air bubbles, Rising, Wakes, Studies, Particles, Polystyrene, Dyed

Structure and behaviour of wakes behind two-dimensional air bubbles in water. R. Collins. *Chemical Engng. Science*, 20. (Sep 65) p.851-3. il. refs.

WATER, Analysis, Equipment

Czechoslovakian automatic analyser. *Water & Waste Treatment*, 10 (May/Jun 65) p.351. il.

WATER, Analysis, Laboratories

Design and equipping of a water analysis laboratory. N. V. West. *Laboratory Practice*, 14 (Feb 65) p.164-7. il.

WATER, Binders, Drums, Tumbling, Granulation, Sand. See **SAND, Granulation, Tumbling, Drums, Binders, Water**

WATER, Boiling, Cleaning, Pipelines, Milk. See **MILK, Pipelines, Cleaning, Boiling water**

WATER, Buildings. See **BUILDINGS, Water**

WATER, Buildings. See **BUILDINGS, Water installations**

WATER, Calcium carbonate, Deposition, Effect of organic chemicals

Stability of natural waters and synthetic solutions. W. A. Bell & H. S. Campbell. *Chemistry & Industry* (13 Feb 65) p.305-6. refs.

WATER, Catchment areas, Geology

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WATER, Cavitation, Luminescence

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Light flashes and shocks from a cavitating flow. P. D. Jarman & K. J. Taylor. *Brit. J. of Applied Physics*, 16 (May 65) p.675-82. il. refs.

WATER, Coagulation, Aluminium salts, Zeta potential

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WATER, Coagulation, Floc separation, Sludge blankets

Hydrodynamic principles of sludge blanket stability. S. Mackle. *Effluent & Water Treatment J.*, 5 (Oct 65) p.505+. il.

WATER, Colour

Colour of pure water. J. E. Tyler. *Nature*, 208 (6 Nov 65) p.549-50. il. refs.

WATER, Conduits, Hydraulic jump

Hydraulic jump in horizontal conduits. N. Rajaratnam. *Water Power*, 17 (Feb 65) p.80-3. il. refs.

WATER, Conservation

Integrated use of diverse resources. F. Law. *J. of Instn. of Water Engrs.*, 19 (Aug 65) p.413-61. il. refs.

WATER, Cooling, Copper, Conductors, Stators, Induction motors. See ELECTRIC MOTORS, Induction, Stators, Conductors, Copper (Cooling, Water)**WATER, Cooling, Corrosion, Tubes, Condensers, Steam turbines, Turbo-alternators. See TURBO-ALTERNATORS, Steam turbines, Condensers, Tubes, Corrosion, Cooling water****WATER, Cooling media, Equipment**

Water coolers. *Mechanical World*, 144 (Dec 64) p.512-14. il.

WATER, Cooling media, Equipment, Corrosion

Control of cooling water corrosion by cathanodic systems (summary) J. F. Wilks. *Corrosion Prevention & Control*, 12 (Jul 65) p.29-30.

Corrosion in cooling water systems (summary) J. F. Wilks & H. Kerst. *Corrosion Technology*, 12 (May 65) p.19

WATER, Cooling media, Treatment

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WATER, Cooling systems. See COOLING SYSTEMS, Water**WATER, Cooling systems, Power stations. See POWER STATIONS, Cooling systems, Water****WATER, Cooling towers, Air conditioning. See AIR CONDITIONING, Cooling towers, Water****WATER, Corrosion, Aluminium. See ALUMINIUM, Corrosion, Water****WATER, Corrosion, Aluminium, Pipelines. See PIPELINES, Aluminium, Corrosion, Water****WATER, Corrosion, Pipes, Cooling systems, Hydrogen peroxide production plant. See HYDROGEN PEROXIDE, Production, Plant, Cooling systems, Pipes, Corrosion, Water****WATER, Corrosion, Steel, Nuclear reactors. See NUCLEAR REACTORS, Steel, Corrosion, Water****WATER, Depth measurement, Undercarriage aquaplaning, Water covered runways, Landing. See LANDING, Water covered runways, Undercarriage aquaplaning, Water depth measurement****WATER, Determination, Inks, Offset lithography. See LITHOGRAPHY, Offset, Ink, Determination of water****WATER, Determination of chlorine**

Evaluation of the methods for determining residual chlorine in water, pt.1: free chlorine. N. J. Nicolson. *Analyst*, 90 (Apr 65) p.187-98. il. refs.

WATER, Determination of chlorine, Colorimetry

Absorptiometric determination of chlorine in water. H. M. Webber & E. A. Wheeler. *Analyst*, 90 (Jun 65) p.372-3. il. refs.

WATER, Determination of coliform organisms, Formate lactose glutamate

Improved formate lactose glutamate medium for the detection of *Escherichia coli* and other coliform organisms in water. R. D. Gray. *J. of Hygiene*, 62 (Dec 64) p.495-508. refs.

WATER, Determination of dissolved oxygen, Pipes, Polymers, Permeability, Oxygen

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WATER, Determination of dissolved oxygen, Polarography

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WATER, Determination of nitrates, Colorimetry

Automatic method for determining nitrate and nitrite in fresh and saline waters. A. Henriksen. *Analyst*, 90 (Feb 65) p.83-88. il. refs.

WATER, Determination of nitrites, Colorimetry

Automatic method for determining nitrate and nitrite in fresh and saline waters. A. Henriksen. *Analyst*, 90 (Feb 65) p.83-88. il. refs.

WATER, Determination of selenium, Ring-oven analysis

Determination of traces of selenium in water by the ring-oven technique. S. Das Biswas & A. K. Dey. *Analyst*, 90 (Jan 65) p.56-7. refs.

WATER, Determination of triazine herbicides, Chromatography, Thin layer

Thin-layer chromatographic determination of triazine herbicides in soil and water. D. C. Abbott, J. A. Bunting & J. Thomson. *Analyst*, 90 (Jun 65) p.356-61. il. refs.

WATER, Diffusion, Carbon dioxide. See CARBON DIOXIDE, Diffusion, Water**WATER, Dissolution, Hydrobenzoic acids. See HYDRO-BENZOIC ACIDS, Dissolution, Water****WATER, Distillation, Level indicators**

Simple fluid level warning device. D. J. Allen & M. Wallis. *J. of Science Technology*, 11 (Jul/Sep 65) p.119. il.

WATER, Engineering

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LAKES, Water
RESERVOIRS
SEA, Water

WATER, Engineering, Arab countries

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WATER, Engineering, Birmingham

Inauguration of the Severn supply scheme. *Brit. Waterworks Ass. J.*, 46 (Dec 64) p.803-5. il.

WATER, Engineering, Bolton

Development of the Bradshaw Valley. J. M. Adams & R. A. Jones. *J. of Instn. of Water Engrs.*, 19 (May 65) p.193-215. il. refs.

WATER, Engineering, Bristol

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WATER, Engineering, Control systems, Computers

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WATER, Engineering, Great Britain

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Inauguration of the Yorkshire River Derwent scheme [Sheffield Corporation Waterworks] *Brit. Waterworks Ass. J.*, 47 (Nov 65) p.679-89. il.

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WATER, Extraction, Dyed hanks. See HANKS, Dyed, Water extraction

WATER, Extraction, Dyed knitted fabrics. See FABRICS, Knitted, Dyed, Water extraction

WATER, Extraction, Rivers

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WATER, Films. See FILMS, Water

WATER, Filters, Magnesium oxide

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Inauguration of the Eccup Filtration Works. *Brit. Water-works Ass. J.*, 47 (Sep 65) p.590-3. il.

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- WEDGES**, Potassium bromide, Differential infra-red spectroscopy. See **SPECTROSCOPY**, Infra-red, Differential, Wedges, Potassium bromide
- WEEDKILLERS**
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- WEEDKILLERS**
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M.C.P.
- WEEDKILLERS**, Permanent way. See **PERMANENT WAY**, Weedkillers
- WEIGHING**, Cosmetics. See **COSMETICS**, Weighing
- WEIGHING**, Food processing. See **FOOD**, Processing, Weighing
- WEIGHING**, Iron production. See **IRON**, Production, Weighing
- WEIGHING**, Mixing, Animal feedingsuffs. See **ANIMAL FEEDINGSTUFFS**, Mixing, Weighing
- WEIGHING**, Railway wagons. See **RAILWAYS**, Wagons, Weighing
- WEIGHING**, Steel, Blooms. See **BLOOMS**, Steel, Weighing
- WEIGHING**, Steel, Slabs. See **SLABS**, Steel, Weighing
- WEIGHING**, Steel production. See **STEEL**, Production, Weighing
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LOAD CELLS
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- WEIGHT**, Air, Conversion to vacuum weight. See **WEIGHT**, Vacuum, Conversion from air weight
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- WELD DEPOSITED STAINLESS STEEL**, Linings, Steel, Pressure vessels, Petrochemicals production. See **PETROCHEMICALS**, Production, Pressure vessels, Steel, Linings, Steel, Stainless, Weld deposited
- WELDED ALUMINIUM**. See **ALUMINIUM**, Welded
- WELDED ALUMINIUM ALLOYS**, Armoured military vehicles. See **MOTOR VEHICLES**, Military, Armoured, Aluminium alloys, Welded
- WELDED AUSTENITIC STAINLESS STEEL**. See **STEEL**, Stainless, Austenitic, Welded
- WELDED AUSTENITIC STAINLESS STEEL**, Steam plant, Power stations. See **POWER STATIONS**, Steam plant, Steel, Stainless, Austenitic, Welded
- WELDED BATTENED STRUTS**. See **STRUTS**, Battered, Welded
- WELDED BODIES**, Diesel electric locomotives. See **LOCOMOTIVES**, Diesel electric, Bodies, Welded
- WELDED FERRITIC STEEL**. See **STEEL**, Ferritic, Welded
- WELDED HIGH TENSILE STEEL**, Cases, Engines, Solid fuelled rockets. See **ROCKETS**, Solid fuelled, Engines, Cases, Steel, High tensile, Welded
- WELDED JOINTS**, Steel, Hollow sections, Structures. See **STRUCTURES**, Sections, Hollow, Steel, Joints, Welded
- WELDED METALS**. See **METALS**, Welded
- WELDED MILD STEEL**. See **STEEL**, Mild, Welded
- WELDED MILD STEEL**, Plates, Pressure vessels, Nuclear reactors. See **NUCLEAR REACTORS**, Pressure vessels, Plates, Steel, Mild, Welded
- WELDED MOLYBDENUM-BORON-STEEL**. See **STEEL-BORON-MOLYBDENUM**, Welded
- WELDED NIMONIC ALLOYS**, Sheets. See **SHEETS**, Nimonic alloys, Welded
- WELDED NIMONIC 75**. See **NIMONIC 75**, Welded
- WELDED PIPES**, Steam. See **STEAM**, Pipes, Welded
- WELDED RAILS**, Permanent way. See **PERMANENT WAY**, Rails, Welded
- WELDED REFINERY EQUIPMENT**, Petroleum. See **PETROLEUM**, Refineries, Equipment, Welded
- WELDED STAINLESS STEEL**, Pipes. See **PIPES**, Steel, Stainless, Welded
- WELDED STEEL**. See **STEEL**, Welded
- WELDED STEEL**, Bodies, Commercial vehicles. See **VEHICLES**, Commercial, Bodies, Steel, Welded
- WELDED STEEL**, Corrugated web-plate girders. See **GIRDERS**, Plate-Web, Corrugated, Steel, Welded
- WELDED STEEL**, Frames, Tall buildings. See **BUILDINGS**, Tall, Frames, Steel, Welded
- WELDED STEEL**, Girders, Buildings. See **BUILDINGS**, Girders, Steel, Welded
- WELDED STEEL**, I-section beams. See **BEAMS**, I-section, Steel, Welded
- WELDED STEEL**, Machine tool components. See **MACHINE TOOLS**, Components, Steel, Welded
- WELDED STEEL**, Machine tool structures. See **MACHINE TOOLS**, Structures, Steel, Welded
- WELDED STEEL**, Membrane walls, Furnaces, Water tube boilers. See **BOILERS**, Water tube, Furnaces, Membrane walls, Steel, Welded

WELDED STEEL, Pipes, Heating, Roads. See ROADS, Heating, Pipes, Steel, Welded

WELDED STEEL, Structures. See STRUCTURES, Steel, Welded

WELDED STEEL, Transoms, Bailey bridges. See BRIDGES, Bailey, Transoms, Steel, Welded

WELDED STRUCTURES, Models, Frigates. See FRIGATES, Models, Structures, Welded

WELDED STUDS, Composite beams. See BEAMS, Composite, Studs, Welded

WELDED T JOINTS, Mild steel, Structures. See STRUCTURES, Steel, Mild, Joints, T, Welded

WELDED TUBES, Boilers. See BOILERS, Tubes, Welded

WELDED TUBULAR STEEL, Shafts, Water turbines. See WATER, Turbines, Shafts, Steel, Tubular, Welded

WELDING

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WELDING

Related Headings:

ELECTRON BEAM WELDING
LASERS, Welding
ULTRASONICS, Welding

WELDING—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Particular localities
Great Britain

Education
Research
Equipment
Fixtures

Technical activities
Inspection

Kinds of welding
Butt
By heat source
Electric
 Rectifiers
 Arc
 Stud
 Resistance
 Spot
Friction
Explosives

WELDING, Aluminium bronze. See ALUMINIUM BRONZE, Welding

WELDING, Arc

Passage of metal through the electric arc. B. Phelps. *Welder*, 33 (Jul/Sep 64) p.63-9. il. refs.

Spotlight on arc welding—26: Adamson & Hatchett Ltd. *Welder*, 33 (Oct/Dec 64) p.80-5. il.

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WELDING, Arc, Aluminium, Pipes. See PIPES, Aluminium, Welding, Arc

WELDING, Arc, Anodes

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WELDING, Arc, Austenitic stainless steel. See STEEL, Stainless, Austenitic, Welding, Arc

WELDING, Arc, Cables, Electric, Maintenance

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Estimating for arc welding. J. Corker. *Welding & Metal Fabrication*, 33 (Jan 65) p.30-3

Estimating for arc welding, pt.2. J. Corker. *Welding & Metal Fabrication*, 33 (Feb 65) p.65-7. il.

WELDING, Arc, Decoration, Buildings. See BUILDINGS, Decoration, Welding, Arc

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Electrode production plant [Havelock Engineering, Ltd.] *Welding & Metal Fabrication*, 33 (Mar 65) p.105-8. il.

WELDING, Arc, Electrodes, Steel, Stainless

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WELDING, Arc, End seals, Cans, Fuel elements, Nuclear reactors. See NUCLEAR REACTORS, Fuel elements, Cans, End seals, Welding, Arc

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WELDING, Aluminium, Steam traced pipes. See PIPES, Steam traced, Aluminium, Welding

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WELDING, Arc, Metal sheets. See SHEETS, Metals, Welding, Arc**WELDING, Arc, Plug, Carbon dioxide shielded**

How to improve CO₂ plug welding. P. F. Woods. *Metalworking Production*, 109 (7 Jul 65) p.64-5. il.

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WELDING, Arc, Sculpture. See SCULPTURE, Welding, Arc**WELDING, Arc, Shipbuilding. See SHIPBUILDING, Welding, Arc****WELDING, Arc, Sintered powder metallurgy, Aluminium. See ALUMINIUM, Powder metallurgy, Sintered, Welding, Arc****WELDING, Arc, Spot, Control systems**

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WELDING, Arc, Steel, Frames, Chassis, Motor cars. See MOTOR CARS, Chassis, Frames, Steel, Welding, Arc**WELDING, Arc, Steel, Sheets, Bodies, Motor cars. See MOTOR CARS, Bodies, Sheets, Steel, Welding, Arc****WELDING, Arc, Temperature distribution**

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WELDING, Arc, Zirconium alloys, Plates. See PLATES, Zirconium, Alloys, Welding, Arc**WELDING, Artificial satellites. See SATELLITES, Artificial, Welding****WELDING, Austenitic-Ferritic transition pieces, Steel, Steam pipes, Power stations. See POWER STATIONS, Steam pipes, Steel, Austenitic-Ferritic transition pieces, Welding****WELDING, Blades, Liquid cooled gas turbines, Ships. See SHIPS, Gas turbines, Liquid cooled, Blades, Welding****WELDING, Bodies, Motor cars. See MOTOR CARS, Bodies, Welding****WELDING, Bronze-Aluminium, Plates. See PLATES, Aluminium-Bronze, Welding****WELDING, Butts**

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WELDING, Butts, Rails, Permanent way. See PERMANENT WAY, Rails, Welding, Butts**WELDING, Butts, Tanks, Road tankers, Transport, Liquid oxygen. See OXYGEN, Liquid, Transport, Road tankers, Tanks, Welding, Butts****WELDING, Ceramics. See CERAMICS, Welding****WELDING, Cold, Silver electroplated steel. See STEEL, Electroplated, Silver, Welding, Cold****WELDING, Connections, Electronic circuits. See CIRCUITS, Electronics, Connections, Welding****WELDING, Corner joints, I-section beams. See BEAMS, I-section, Joints, Corner, Welding****WELDING, Education**

Welding processes at Cranfield. L. M. Gour. *Welding & Metal Fabrication*, 33 (Oct 65) p.422-4. il.

WELDING, Electrical equipment. See ELECTRICAL EQUIPMENT, Welding**WELDING, Electroslag, Cylinders, Hydraulic presses. See PRESSES, Hydraulic, Cylinders, Welding, Electroslag****WELDING, Engine cases, Solid fuelled rockets. See ROCKETS, Solid fuelled, Engines, Cases, Welding****WELDING, Equipment, Buyers' guides**

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WELDING, H.F., Thermoplastics. See THERMOPLASTICS, Welding, H.F.**WELDING, Helical, Metals, Strips, Tubes. See TUBES, Strips, Metals, Welding, Helical****WELDING, Helical, Stainless steel, Tubes. See TUBES, Steel, Stainless, Welding, Helical****WELDING, High tensile steel. See STEEL, High tensile, Welding****WELDING, Hot dip aluminised steel, Sheets. See SHEETS, Steel, Aluminised, Hot dip, Welding****WELDING, Induction, Metals, Tubes. See TUBES, Metal, Welding, Induction****WELDING, Induction, Steel, Strips, Tubes. See TUBES, Strips, Steel, Welding, Induction****WELDING, Induction, Steel, Tubes, Small bore heating, Buildings. See BUILDINGS, Heating, Small bore, Tubes, Steel, Welding, Induction****WELDING, Infra-red, Thermoplastics, Film. See FILM, Thermoplastics, Welding, Infra-red****WELDING, Inspection, Radiography**

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WELDING, Motor car manufactures. See **MOTOR CARS, Manufactures, Welding**

WELDING, Nickel alloys, Pipes. See **PIPES, Nickel, Alloys, Welding**

WELDING, Nickel alloys, Tubes. See **TUBES, Nickel, Alloys, Welding**

WELDING, Nimonic alloys. See **NIMONIC ALLOYS, Welding**

WELDING, Oxy-acetylene, Agricultural equipment maintenance. See **AGRICULTURAL EQUIPMENT, Maintenance, Welding, Oxy-acetylene**

WELDING, Pressure

Related Headings:
BONDING, Diffusion

WELDING, Pressure, Aluminium, Bars. See **BARS, Aluminium, Welding, Pressure**

WELDING, Pressure vessels. See **PRESSURE VESSELS, Welding**

WELDING, Projection, Typewriter components. See **TYPE-WRITERS, Components, Welding, Projection**

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WELDING, Resistance, Bodies, Motor cars. See **MOTOR CARS, Bodies, Welding, Resistance**

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WELDING, Resistance, Metals, Beam manufactures. See **BEAMS, Metal, Manufactures, Welding, Resistance**

WELDING, Shipbuilding. See **SHIPBUILDING, Welding**

WELDING, Spin, Thermoplastics. See **THERMOPLASTICS, Welding, Spin**

WELDING, Spot, Metals, Panels, Radiators. See **RADIATORS, Panels, Metals, Welding, Spot**

WELDING, Spot, Nimonic PE 17. See **NIMONIC PE 17, Welding, Spot**

WELDING, Spot, Steel, Sheets, Radiators. See **RADIATORS, Sheets, Steel, Welding, Spot**

WELDING, Spot, Steel, Structures. See **STRUCTURES, Steel, Welding, Spot**

WELDING, Spot, Testing, Ultrasonics

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WELDING, Stainless steel, Casks, Beer. See **BEER, Casks, Steel, Stainless, Welding**

WELDING, Steel. See **STEEL, Welding**

WELDING, Steel, Bridges. See **BRIDGES, Steel, Welding**

WELDING, Steel, Frames, Office buildings. See **OFFICE BUILDINGS, Frames, Steel, Welding**

WELDING, Steel, Legs, Platforms, Off shore drilling, Natural gas. See **GAS, Natural, Drilling, Off shore, Platforms, Legs, Steel, Welding**

WELDING, Steel, Legs, Platforms, Off shore drilling, Petroleum. See **PETROLEUM, Drilling, Off shore, Platforms, Legs, Steel, Welding**

WELDING, Steel, Plates, Pressure vessels, Nuclear reactors. See **NUCLEAR REACTORS, Pressure vessels, Plates, Steel, Welding**

WELDING, Steel, Strips, Tubes. See **TUBES, Strips, Steel, Welding**

WELDING, Steel, Structures. See **STRUCTURES, Steel, Welding**

WELDING, Steel, Tanks. See **TANKS, Steel, Welding**

WELDING, Steel, Tanks, Storage, Liquefied propane. See **PROPANE, Liquefied, Storage, Tanks, Steel, Welding**

WELDING, Steel, Tubes. See **TUBES, Steel, Welding**

WELDING, Stitch, Nimonic PE 17. See **NIMONIC PE 17, Welding, Stitch**

WELDING, Stud, Composite bridges, Motorways. See **MOTORWAYS, Bridges, Composite, Welding, Stud**

WELDING, Stud, Cooking utensils. See **COOKING UTENSILS, Welding, Stud**

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High speed stud welding. *Welding & Metal Fabrication*, 33 (Oct 65) p.428-9. il. ;

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WELDING, Stud, Mild steel, Frames, Seats, Motor vehicles. See **MOTOR VEHICLES, Seats, Frames, Steel, Mild, Welding, Stud**

WELDING, Submerged arc, Steel, Plates. See **PLATES, Steel, Welding, Submerged arc**

WELDING, Suspension bridges. See **BRIDGES, Suspension, Welding**

WELDING, Thermoplastics. See **THERMOPLASTICS, Welding**

WELDING, Tong-holds, Forging, Billets. See **BILLETS, Forging, Tong-holds, Welding**

WELDING, Ultrasonics, Rigid thermoplastics. See **THERMOPLASTICS, Rigid, Welding, Ultrasonics**

WELDING, Zinc painted steel plates, Ships. See **SHIPS, Plates, Steel, Painted, Zinc, Welding**

WELLS, Drilling, Petroleum. See **PETROLEUM, Drilling, Wells**

WELLS, Water. See **WATER, Wells**

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WEMBLEY

See
HOSPITALS, Northwick Park

LIBRARIES, Branch, Brent, Wembley

WESSEX 60 HELICOPTERS. See **HELICOPTERS, Types, Westland Wessex 60**

WEST AFRICA

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FISHING, Industry, West Africa
MOTORWAYS, Ghana

WEST BERLIN

See

TOWN PLANNING, West Berlin

WEST BRIDGFORD

See

SHOPPING CENTRES, West Bridgford

WEST BROMWICH

See

PUBLIC WORKS, West Bromwich

WEST BURTON

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POWER STATIONS, West Burton

WEST GERMANY

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AIR TRANSPORT, West Germany
AIRPORTS, Terminal buildings, Wahn
ARCHITECTURE, Cologne
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BUILDING, Industry, West Germany
BUILDINGS, Prefabricated, West Germany
BUNGALOWS, Prefabricated, West Germany
CHURCHES, Blumenau
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COAL, Mining, Bavaria
COAL, Mining, Machines, West Germany
CUPOLAS, Dust extraction, West Germany
DAIRY INDUSTRY, West Germany
ENGINEERING, Education, West Germany
FISHING, Industry, West Germany
FLATS, Lahr
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HOUSING, Hamburg
HOUSING, Prefabrication, West Germany
HYDROELECTRIC POWER STATIONS, Mosel River
HYDROELECTRIC POWER STATIONS, Rhine River
MOTOR CARS, Manufactures, West Germany
NUCLEAR ENERGY, West Germany
NUCLEAR POWER STATIONS, Kahl
NUCLEAR REACTORS, Instruments, West Germany
ORES, Mining, Megen
PETROLEUM, Prospecting, Reitbrook
PLASTICS, Quality control, West Germany
PORTS, Hamburg
RADIATION CHEMISTRY, West Germany
RAILWAYS, Electric, Dusseldorf
RAILWAYS, Ruhr
ROADS, Town planning, West Germany
SHOPPING CENTRES, Hamburg
SIEMENS-SCHUCKERTWERKE A.G., Forschungszentrum
STRIPS, Metal, Coating, West Germany
TECHNICAL EDUCATION, West Germany
THEATRES, Gelsenkirchen
THEATRES, Karlsruhe
TOWN & COUNTRY PLANNING, Ruhr
TOWN PLANNING, Bremen
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TRAMWAYS, Munich
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WEST HARTLEPOOL

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WEST INDIES

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WEST MIDLANDS

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WESTERN EUROPE

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CHURCHES, Winnipeg

WINSFORD

See

TECHNOLOGY, Winsford

WINTER, Building. See BUILDING, Winter

WINTER, Building, Farm buildings. See FARM BUILDINGS, Construction, Winter

WINTER, Concreting. See CONCRETING, Winter

WINTER, Hovercraft. See HOVERCRAFT, Winter conditions

WINTER, Maintenance, Earth moving equipment. See EARTH MOVING EQUIPMENT, Maintenance, Winter

WIPERS, Slideways, Machine tools. See MACHINE TOOLS, Slideways, Wipers

WIPERS, Windscreens, Motor cars. See MOTOR CARS, Windscreens, Wipers

WIPERS, Windscreens, Motor vehicles. See MOTOR VEHICLES, Windscreens, Wipers

WIRE BRUSHES, Deburring machines. See DEBURRING, Machines, Brushes, Wire

WIRE DELAY LINES. See DELAY LINES, Wire

WIRE FLIGHT RECORDERS. See FLIGHT RECORDERS, Wire

WIRE LINE CORE DRILLING, Prospecting, Tin. See TIN, Prospecting, Drilling, Core, Wire line

WIRE ROPES. See ROPES, Wire

WIRE ROPES, Drilling, Petroleum. See PETROLEUM, Drilling, Ropes, Wire

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WIRES, Steel, Tendons, Prestressed concrete. See CONCRETE, Prestressed, Tendons, Wire, Steel**WIRES, Steel, Typewriter components. See TYPEWRITERS, Components, Wires, Steel****WIRES, Tantalum carbide, Powder metallurgy, Extrusion**

Technique for extrusion forming of brittle and refractory compositions. M. R. Pickus & M. Wells. *Powder Metallurgy*, 8 (Autumn 65) p.351-63. il. refs.

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See

FLATS, Milwaukee

WISHBONES (Motor cars) Assembly

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MOTOR CARS, Types, Wolseley 6/110 Mk 2 Automatic

WOLSELEY 1100 CARS. See MOTOR CARS, Types, Wolseley 1100**WOLSELEY HORNET CARS. See MOTOR CARS, Types, Wolseley Hornet****WOLVERHAMPTON**

See

HOUSING, Old people, Wolverhampton

HOUSING, Wolverhampton

ROADS, Wolverhampton

TOWN PLANNING, Wolverhampton

WOMEN, Industrial safety. See SAFETY, Industrial, Women**WOMEN, Metallurgy profession. See METALLURGY, Profession, Women****WOMEN, Technologists. See TECHNOLOGISTS, Women****WOOD**

Related Headings:

AGBA

BALSAWOOD

BAMBOO

BASRALOCUS

BERLINIA

BIRCH

BORNEO EBONY

CANADIAN ASPEN

CORK

ESIA

HARDWOODS

IROKO

LIMBA

LOURO

MERBAU

MUTENYE

OPEPE

PARANA PINE

PURPLEHEART

RAMIN

RED PINE

WOOD-SUBHEADINGS-Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Education
Research

WOOD—SUBHEADINGS—Synopsis—cont.

Properties

Microstructure

Action of wood

Corrosion agents

Acid vapours, Corrosion agents

Problems

Stain defects

Technical activities

Measurements

Stress grading

Drying

Manufactures

Moulding

Cutting

Saws

Drilling

Drills

Planing

Jointing

Dovetailing

Finishing

Sanding

Graining

Preservation

Mechanical handling

Transport

Products and byproducts

Edges

Chipboard

Applications

Building materials

Prefabricated building materials

Engineering

WOOD, Acid vapours, Corrosion agents

Emission of corrosive vapours by wood, pt.1: survey of the acid-release properties of certain freshly felled hardwoods and softwoods. P. C. Arni, G. C. Cochrane & J. D. Gray. *J. of Applied Chemistry*, 15 (Jul 65) p.305-13

WOOD, Beams. See **BEAMS, Wood**

WOOD, Beams, Roofs. See **ROOFS, Beams, Timber**

WOOD, Bodies, Commercial vehicles. See **VEHICLES, Commercial, Bodies, Wood**

WOOD, Bodies, Motor vehicles. See **MOTOR VEHICLES, Bodies, Wood**

WOOD, Box beams, Roofs. See **ROOFS, Beams, Box, Timber**

WOOD, Building materials, Adhesives

Adhesives in building: structural techniques transformed.

A. J. Bune. *National Builder*, 46 (Oct 65) p.992+. il.

WOOD, Building materials, Exposed, Painting

Exposed timber surfaces. G. Old. *Painting & Decorating*, 85 (Dec 65) p.19-20

WOOD, Building materials, Finishing

Painters' problems: staining and finishing woodwork. G.

Old. *Painting & Decorating*, 85 (Jun 65) p.30-1

Sheet materials and timber construction. R. A. Michelmores.

Industrialised Building, 2 (May 65) p.57-8. il.

WOOD, Buildings. See **BUILDINGS, Wood**

WOOD, Bungalows. See **BUNGALOWS, Wood**

WOOD, Caravans. See **CARAVANS, Wood**

WOOD, Carvings. See **CARVINGS, Wood**

WOOD, Cases, Clocks. See **CLOCKS, Cases, Wood**

WOOD, Chipboard

Bright future for wood chipboard. F. C. Lynam. *Woodworking Industry*, 22 (Mar 65) p.63-4. il.

Wood chipboard—almost an insulation board. *Insulation*, 9 (May/Jun 65) p.133. il.

WOOD, Chipboard, Interior decoration, Houses. See

HOUSES, Interior decoration, Wood, Chipboard

WOOD, Chipboard, Production

From timber to chipboard: Aircrow-Wyroc's new chipboard factory at Hexham, Northumberland. *Mechanical Handling*, 52 (Jan 65) p.28-33. il.

U.K. wood chipboard industry. *Brit. Plastics*, 38 (Mar 65) p.137-41. il.

WOOD, Choir stalls, Churches. See **CHURCHES, Choir stalls, Wood**

WOOD, Churches. See **CHURCHES, Wood**

WOOD, Clubhouses, Golf. See **GOLF, Clubhouses, Timber**

WOOD, Clubhouses, Sites, Caravans. See **CARAVANS, Sites, Clubhouses, Wood**

WOOD, Components, Housing. See **HOUSING, Components, Wood**

WOOD, Corrosion agents, Analysis

Emission of corrosive vapour by wood. Pt.2: analysis of the vapours emitted by certain freshly felled hardwoods and softwoods by gas chromatography and spectrophotometry.

P. C. Arni, G. C. Cochrane & J. D. Gray. *J. of Applied Chemistry*, 15 (Oct 65) p.463-8. refs.

WOOD, Cutting, Tools, Tips, Tungsten carbide, Grinding, Diamond

Keeping the edge on woodworking tools. H. J. Otterloo.

Industrial Diamond Rev., 25 (Feb 65) p.57-60. il.

WOOD, Distillation

Related Headings:

CHARCOAL

WOOD, Doors, Churches. See **CHURCHES, Doors, Wood**

WOOD, Dovetailing

Dovetail cutting on a spindle moulder. E. Stephenson.

Woodworking Industry, 22 (May 65) p.31-2. il.

WOOD, Drills, Electric, Portable

Power drills to suit every need. D. P. Cloet. *Woodworking Industry*, 22 (Jul 65) p.33-4. il.

WOOD, Drying

Timber drying and quality control. W. H. Brown. *Woodworking Industry*, 22 (Oct 65) p.31-2

WOOD, Edges, Sanding

Edge and mould sanding methods. E. Wilbraham. *Woodworking Industry*, 22 (Sep 65) p.29-30. il.

WOOD, Education, Universities

Degree in forestry or wood science. E. C. Mobbs. *Wood*, 30 (Jul 65) p.48

Undergraduate course in timber engineering at the University of Newcastle-upon-Tyne. D. W. Cooper. *Wood*, 30 (May 65) p.45-7. il.

WOOD, Engineering

Timber: its uses and characteristics in plant engineering.

G. A. Bell. *Plant Engr.*, 9 (Mar/Apr 65) p.211-19. il. refs.

WOOD, Engineering, Education

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WOOD, Exhibition buildings. See **EXHIBITION BUILDINGS, Wood**

WOOD, Extractives

Related Headings:

LIGNANS

WOOD, Farm buildings. See **FARM BUILDINGS, Timber**

WOOD, Feet, Rammers. See **RAMMERS, Feet, Wood**

WOOD, Fences. See **FENCES, Wood**

WOOD, Finishing

Profit by new techniques. J. W. Collier. *Woodworking Industry*, 22 (Mar 65) p.55-6

Wood finishing methods. E. E. Coker. *Surface Coatings*, 1 (Jul 65) p.255-8. il.

WOOD, Finishing, Defects

Common faults in modern wood finishes. *Product Finishing*, 18 (Jan 65) p.67+

WOOD, Fishing vessels. See **FISHING, Vessels, Wood**

- WOOD, Floors. See FLOORS, Timber
- WOOD, Floors, Houses. See HOUSES, Floors, Timber
- WOOD, Folded plates, Roofs, Churches. See CHURCHES, Roofs, Plates, Folded, Timber
- WOOD, Footwear. See FOOTWEAR, Wood
- WOOD, Frames, Curtain walls. See WALLS, Curtain, Frames, Wood
- WOOD, Frames, Houses. See HOUSES, Frames, Wood
- WOOD, Frames, Housing. See HOUSING, Frames, Wood
- WOOD, Frames, Windows. See WINDOWS, Frames, Wood
- WOOD, Furniture. See FURNITURE, Wood
- WOOD, Furniture, Churches. See CHURCHES, Furniture, Wood
- WOOD, Gates, Waterways, Locks. See LOCKS, Waterways, Gates, Wood
- WOOD, Graining, Machines**
 Result of progress—grain printing. A. Turner. Woodworking Industry, 22 (Oct 65) p.27-30. il.
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- WOOD, Halls, Schools. See SCHOOLS, Halls, Timber
- WOOD, Hexagonal roofs, Halls, Schools. See SCHOOLS, Halls, Roofs, Hexagonal, Timber
- WOOD, Hostels. See HOSTELS, Wood
- WOOD, Houses. See HOUSES, Wood
- WOOD, Housing. See HOUSING, Wood
- WOOD, Hyperbolic paraboloid roofs, Halls, Schools. See SCHOOLS, Halls, Roofs, Hyperbolic paraboloid, Timber
- WOOD, Hyperbolic paraboloid shell roofs. See ROOFS, Shell, Hyperbolic paraboloid, Timber
- WOOD, Hyperbolic paraboloid shell roofs, Schools. See SCHOOLS, Roofs, Shell, Hyperbolic paraboloid, Timber
- WOOD, Interior decoration, Conference rooms, Office buildings. See OFFICE BUILDINGS, Conference rooms, Interior decoration, Wood
- WOOD, Interior decoration, Retail shops. See SHOPS, Retail, Interiors, Decoration, Wood
- WOOD, Joinery. See JOINERY, Wood
- WOOD, Jointing, Edge, Heating, R.F.**
 R.F. edge jointing with automatic feed. J. Pound. Wood, 30 (Jan 65) p.44-6. il.
- WOOD, Jointing, Mitre, Keyed, Cutting**
 Methods of cutting keyed mitres. E. Stephenson. Woodworking Industry, 22 (Jun 65) p.37-8. il.
- WOOD, Laminated. See LAMINATES, Wood
- WOOD, Laminated, Beams, Roofs. See ROOFS, Beams, Timber, Laminated
- WOOD, Laminated, Formwork, Concrete structures, Hydro-electric power stations. See HYDROELECTRIC POWER STATIONS, Structures, Concrete, Formwork, Wood, Laminated
- WOOD, Laminated, Frames, Windows. See WINDOWS, Frames, Wood, Laminated
- WOOD, Laminated, Portal frames, Churches. See CHURCHES, Portal frames, Wood, Laminated
- WOOD, Laminated, Structures. See STRUCTURES, Timber, Laminated
- WOOD, Manufactures
 Related Headings:
 BLOCKBOARD
 FIBRE BOARD
 HARDBOARD
 PARTICLE BOARDS
 PLYWOOD
 SAWMILLS
 TENONING
 VENEERS
- WOOD, Manufactures, Adhesives**
 Adhesives: towards a revolution. W. A. Chugg & V. R. Gray. Woodworking Industry, 22 (Mar 65) p.76-7
- WOOD, Manufactures, Adhesives, Application, Equipment**
 Glue application by Cascade Coater. T. F. Gray. Wood, 30 (Feb 65) p.51-3. il.
- WOOD, Manufactures, Adhesives, Curing, Heating, Low voltage**
 Low voltage heating applications. J. Pound. Wood, 30 (Mar 65) p.52-4. il.
 Some uses of RF and LV in Australia. J. Tyrrell. Woodworking Industry, 22 (Jan 65) p.35-6. il.
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 Recent trends in R.F. heating. J. Pound. Wood, 30 (Feb 65) p.48-50. il.
 Some uses of RF and LV in Australia. J. Tyrrell. Woodworking Industry, 22 (Jan 65) p.35-6. il.
 Unfamiliar facts on R.F. heating. J. Pound. Wood, 30 (May 65) p.48-50. il.
- WOOD, Manufactures, Adhesives, Curing, Heating, R.F., Stray field platens**
 Using the stray field platen. J. Pound. Wood, 30 (Jul 65) p.49-51. il.
- WOOD, Manufactures, Adhesives, P.V.A.**
 Benefits of PVA adhesive development. J. A. Parsons. Woodworking Industry, 22 (Dec 65) p.24-6. il.
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CHRONOCYCLEGRAPHS

JOB ANALYSIS

MACHINE INTERFERENCE

METHODS TIME MEASUREMENT

TIME STUDY

WORK SAMPLING

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BRAZING
BROACHING
CLINCHING
CROPPING, Presses
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WORKSHOP PRACTICE

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GRINDING
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JIG GRINDING
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WORSTED, Carding

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WORSTED, Tops. See **TOPS, Worsted****WORSTED, Yarns.** See **YARNS, Worsted****WORTS, Brewing.** See **BREWING, Worts****WORTS, Distillation, Grain whisky.** See **WHISKY, Grain, Distillation, Worts****"WRAP AROUND" PLATES, Printing.** See **PRINTING, Plates, "Wrap around"****WRAPPED JOINTS, Cables, Telephony.** See **TELEPHONY, Cables, Joints, Wrapped****WRAPPING.** See **PACKAGING****WRAPPINGS, Polythene, Joints, Steel pipes.** See

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Types, Wren 460

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HAND WRITING

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See

METALS, Production, Wye Valley

WYLFA

See

NUCLEAR POWER STATIONS, Wylfa

WYTHENSHAW

See

HOSPITALS, Wythenshawe

TOWN PLANNING, Wythenshawe

X-15 AIRCRAFT. See **AIRCRAFT, Rocket powered, Types, North American X-15****X-BAND, Spectrum analysers**

An X-Band spectrum analyser and sweep generator. R. W. Eldred. *Electronic Engng.*, 37 (Jan 65) p.2-6. il.

X-RAYS, Absorption, China clay determination, Coating, Paper.

See **PAPER, Coating, China clay, Determination, X-ray absorption**

X-RAYS, Absorption, Separation, Diamonds. See **DIAMONDS, Separation, X-ray absorption****X-RAYS, Ash measurement, Preparation, Coal.** See **COAL, Preparation, Ash, Measurement, X-rays****X-RAYS, Charge injection, Electrical conductivity indecement, Hexane, Conductivity.** See **HEXANE, Electrical, Conductivity, Inducement, Charge injection, X-rays****X-RAYS, Coated diamond studies.** See **DIAMONDS, Coated, X-ray studies****X-RAYS, Defect studies, Diamonds.** See **DIAMONDS, Defects, X-ray studies****X-RAYS, Diffraction**

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X-RAYS, Diffraction, Essential oils. See **ESSENTIAL OILS, X-rays, Diffraction****X-RAYS, Diffraction, Ferrous compounds determination, Zinc alloys anodes, Voltaic cells.** See **CELLS, Voltaic, Anodes, Zinc alloys, Determination of ferrous compounds, X-ray diffraction****X-RAYS, Diffraction, Fibres, Textiles.** See **TEXTILES, Fibres, X-ray diffraction****X-RAYS, Diffraction, Fourier series, Summation, Computers, Programs**

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X-RAYS, Diffraction, Graphite. See GRAPHITE, X-ray diffraction

X-RAYS, Diffraction, High pressure studies, Solids. See SOLIDS, High pressure, Studies, X-ray diffraction

X-RAYS, Diffraction, *Huneria umbellata* seeds. See HUNERIA UMBELLATA, Seeds, X-ray diffraction

X-RAYS, Diffraction, Iron-Tin intermetallic compound, Tin-plate production. See TINPLATE, Production, Iron-Tin intermetallic compound, X-ray diffraction

X-RAYS, Diffraction, Irradiation studies, Single crystals, Magnesium oxide. See MAGNESIUM OXIDE, Crystals, Single, Irradiation, Studies, X-ray diffraction

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X-RAYS, Diffraction, Photographs, Interpretation, Optical diffraction patterns, Masks

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X-RAYS, Diffraction, Powder photographs, Data processing, Computers

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X-RAYS, Diffraction, Protein. See PROTEIN, X-ray diffraction

X-RAYS, Diffraction, Single crystal defect studies. See CRYSTALS, Single, Defects, Studies, X-ray diffraction

X-RAYS, Diffraction, Solubility boundary studies, Alpha phase, Cadmium-Zinc. See CADMIUM-ZINC, Alpha phase, Solubility boundaries, Studies, X-ray diffraction

X-RAYS, Diffraction, Solubility boundary studies, Beta phase, Cadmium-Zinc. See CADMIUM-ZINC, Beta phase, Solubility boundaries, Studies, X-ray diffraction

X-RAYS, Diffraction, Temper rolling studies, Mild steel, Sheets. See SHEETS, Steel, Mild, Temper rolling, Studies, X-ray diffraction

X-RAYS, Diffraction, Thallium borate glass studies. See GLASS, Thallium borate, Studies, X-ray diffraction

X-RAYS, Diffraction, Thorium dioxide. See THORIUM DIOXIDE, X-ray diffraction

X-RAYS, Diffraction, Twinning, Amethyst. See AMETHYST, Twinning, X-ray diffraction

X-RAYS, Diffraction, Urea clathrates. See UREA CLATHRATES, X-ray diffraction

X-RAYS, Diffraction, Vibrations studies, Quartz crystals. See QUARTZ, Crystals, Vibrations, Studies, X-ray diffraction

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Setting accuracy in point-drive, single-crystal, x-ray diffractometers. J. V. Binns. *J. of Scientific Instruments*, 41 (Dec 64) p.715-21. il. refs.

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77-600°K vacuum path x-ray diffraction apparatus. J. A. Goldak. *J. of Scientific Instruments*, 41 (Dec 64) p.722-6. il. refs.

X-RAYS, Emission spectrum, Lithium. See LITHIUM, X-ray emission spectrum

X-RAYS, Emission spectrum, Magnesium-Aluminium. See ALUMINIUM-MAGNESIUM, X-ray emission spectrum

X-RAYS, Filters, Balanced

Statistical consideration in the design of balanced x-ray filters. E. G. Boonstra. *J. of Scientific Instruments*, 42 (Aug 65) p.563-8. il. refs.

X-RAYS, Fluorescence, Diamond determination, Kimberlite. See KIMBERLITE, Determination of diamond, X-rays, Fluorescence

X-RAYS, Fluorescence, Spectrometers

Commercial spectrometer modified for X-ray spectroscopy of the light elements. R. W. G. Wyckoff & F. D. Davidson. *Nature*, 205 (6 Mar 65) p.969-71. il. refs.

X-RAYS, Fluorescence, Spectrometers, Polyvinyl alcohol-Sodium phosphate. See POLYVINYL ALCOHOL-SODIUM PHOSPHATE, X-ray fluorescence, Spectrometers

X-RAYS, Fluorescence, Spectroscopy, Europium, Borate glass constituents. See GLASS, Borate, Constituents, Spectroscopy, X-ray fluorescence

X-RAYS, Fluorescence, Spectroscopy, Geochemical prospecting, Metal mining. See METALS, Mining, Prospecting, Geochemical, Spectroscopy, X-ray fluorescence

X-RAYS, Fluorescence, Spectroscopy, Geochemical prospecting, Tin. See TIN, Prospecting, Geochemical, Spectroscopy, X-ray fluorescence

X-RAYS, Fluorescence, Spectroscopy, Pulp, Flotation, Ores, Copper. See COPPER, Ores, Flotation, Pulp, X-ray fluorescence spectroscopy

X-RAYS, Fluorescence, Spectroscopy, Silicate rock. See ROCK, Silicates, X-ray fluorescence spectroscopy

X-RAYS, Fluorescence, Spectroscopy, Slurries, Mineral dressing. See MINERAL DRESSING, Slurries, X-ray fluorescence spectroscopy

X-RAYS, Fluorescence, Spectroscopy, Tin determination. See TIN, Determination, X-ray fluorescence spectroscopy

X-RAYS, Ionisation, Pre-breakdown studies, Dielectric strength, Hexane. See HEXANE, Dielectric strength, Pre-breakdown, Studies, Ionisation, X-rays

X-RAYS, Ionosphere. See IONOSPHERE, X-rays

X-RAYS, Microanalysis

Related Headings:

ELECTRON PROBE MICROANALYSIS**X-RAYS, Microanalysis, Non-metallic inclusions, Steel.** See STEEL, Inclusions, Non-metallic, X-ray microanalysis**X-RAYS, Radiography, Cast iron, Shielding, Nuclear reactors.** See NUCLEAR REACTORS, Shielding, Iron, Cast, Radiography, X-rays**X-RAYS, Shielding, Lead**

Lead shielding: some technical and commercial aspects.

R. Smith. Nuclear Energy (May 65) p.157-60

X-RAYS, Tubes, Radiography, Smoke, Cigarettes. See CIGARETTES, Smoke, Radiography, X-rays, Tubes**X-RAYS, Tubes, Shutter—Collimator coupling**

Comprehensive safety shutter and collimator coupling for the Philips x-ray tube shield PW 1016. V. A. Hallewell, R. J. Murphy, P. J. Pauling & G. B. Robertson. J. of Scientific Instruments, 42 (Oct 65) p.763-5. il. refs.

X-Y PLOTTERS, Oscilloscopes, Sampling circuits. See SAMPLING CIRCUITS, Oscilloscopes, X-Y plotters**X-Y PLOTTERS, Pulse height recording, Oscilloscopes, Sampling circuits.** See SAMPLING CIRCUITS, Oscilloscopes, Pulse height recording, X-Y plotters**X-Y-Z PLOTTERS**

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XANTHATES, Collectors, Flotation, Galena. See GALENA, Flotation, Collectors, Xanthates**XENON, Ions, Neutralisation, Space charge, Caesium, Thermionic diode power generators.** See DIODES, Thermionic, Power generators, Caesium, Space charge, Neutralisation, Xenon ions**XENON, Lamps, Lighthouses.** See LIGHTHOUSES, Lamps, Xenon**XENON, Poisoning, Gas cooled nuclear reactors.** See NUCLEAR REACTORS, Gas cooled, Poisoning, Xenon**XEROGRAPHY, Engineering drawings.** See ENGINEERING, Drawings, Xerography**XEROGRAPHY, Equipment**

Midas touch: Rank Xerox. Times Rev. of Industry & Technology, 3 (Dec 65) p.22-5. il.

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XEROGRAPHY, Machines, Components, Castings, Painting, Surface preparation

Cleaning and phosphating Rank office copying machines [EFCO] Product Finishing, 18 (Apr 65) p.66-7. il.

XEROGRAPHY, Machines, Storage, Warehouses, Mechanical handling

Flow system bridges 46 miles [Rank Xerox] H. Bayler. Mechanical Handling, 52 (Jul 65) p.331-3. il.

XEROGRAPHY, Machines, Manufactures, Factories, Construction, P.E.R.T.

Smoothing the path of the planner. Data Processing, 7 (Mar/Apr 65) p.70-9. il.

XEROGRAPHY, Plate-making, Photolithography. See PHOTO-LITHOGRAPHY, Plate-making, Xerography**XYLYLENE DIPHOSPHOROUS COMPOUNDS**

Preparation of some novel diposphorus compounds, Pt.2: preparation of some p-xylylene diposphorus compounds. P. G. Chantrell, C. A. Pearce, C. R. Toyer & R. Twaits. J. of Applied Chemistry, 15 (Oct 65) p.460-2. refs.

Y TYPE AEC LORRIES. See LORRIES, Types, AEC Y type**YACHTS, Anchors**

Will your anchor hold? T. Stokes. Motor Boat, 103 (13 Aug 65) p.42-4. il.

YACHTS, Basins

New harbour for Cannes. Motor Boat, 102 (12 Feb 65) p.66-7. il.

YACHTS, Close hauled, Helm balance

Balance of helm and static directional stability of yachts sailing close-hauled. J. S. Letcher Jr. J. of R. Aeronautical Soc., 69 (Apr 65) p.241-8. il. refs.

YACHTS, Design, Boundary layer, Model tests

Boundary layer flow. E. Amble. Ship & Boat Builder, 18 (Mar 65) p.48+. il. refs.

YACHTS, Electronic equipment

Electronics afloat. M. J. Rantzen. Motor Boat, 102 (23 Apr 65) p.41-5. il.

YACHTS, Motor

Big better yacht. Motor Boat, 103 (30 Jul 65) p.42-3. il. "Carinthia IV" Deltic-engined luxury yacht. Shipbuilding & Shipping Record, 105 (15 Apr 65) p.484-5. il.

Designers own yacht ["Dimarcha"] Motor Boat, 103 (27 Aug 65) p.52-3. il.

"Dimarcha": yacht. Ship & Boat Builder, 18 (Sep 65) p.41-2. il.

Long distance runner ["Ketos"] Motor Boat, 102 (21 May 65) p.86-8. il.

Pleasure craft, 1965. Ship & Boat Builder, 18 (Jan 65) p.52-5. il.

YACHTS, Motor, Design

Two small yachts [Dragonfly and Audacity] R. Carr & C. Mudie. Design, (Jan 65) p.29-33. il.

YACHTS, Motor, Interior design

Interior design competition [The "Warrior"] Motor Boat, 103 (13 Aug 65) p.32+. il.

YACHTS, Navigation, Tidal waters, Channel Islands

Channel Island pilotage. M. J. Rantzen. Motor Boat, 103 (16 Jul 65) p.34-7. il.

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YACHTS, Navigation, Tidal waters, Solent

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YACHTS, Polyester-Glass fibre, Building, Regulations

New Lloyd's rules. Brit. Plastics, 38 (May 65) p.275

YACHTS, Telephony, Radio links

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YACHTS, Water closets

Marine toilets. E. L. Delmar-Morgan. Motor Boat, 102 (12 Mar 65) p.121-2. il.

YAGI AERIALS, Communication, Artificial satellites. See SATELLITES, Artificial, Communication, Aerials, Yagi**YAGI AERIALS, U.H.F. radio.** See RADIO, U.H.F., Aerials, Yagi**YAGI AERIALS, V.H.F. radio.** See RADIO, V.H.F., Aerials, Yagi**YAMAHA YA6 MOTOR CYCLES.** See MOTOR CYCLES, Types, Yamaha YA6**YAMAHA YDS3 MOTOR CYCLES.** See MOTOR CYCLES, Types, Yamaha YDS3**YAMUNA**

See

HYDROELECTRIC POWER STATIONS, Yamuna

YARD, Standards

Size of the yard. P. W. Harrison. Bull. of Mechanical Engng. Education, 4 (Apr/Jun 65) p.181-2. refs.

Size of the yard. P. W. Harrison. Machine Shop, 26 (May 65) p.193. refs.

YARMOUTH, Great. See GREAT YARMOUTH**YARNS**

Related Headings:

HANKS
SLIVERS
THREAD
TOPS
TOWS

YARNS—SUBHEADINGS—Synopsis

This synopsis shows, in italic, related subheadings which are separated in the alphabetical sequence following.

Problems

Faults
Slubs
Unevenness

Properties

Mechanical properties
Filament strength
Creep
Abrasion
Count

Technical activities

Processing
Winding
Warping
Spinning
Twisting
Setting
Sizing
Bleaching
Dyeing

Equipment

Packages

Kinds of yarns

By property
Filament
Elastic
Core

By material

Cellulosic
Cotton
Linen
Woolen
Worsted
Man-made fibres
Cellulosic
Cellulose acetate
Rayon
Polynosics
Polyamide fibres
Nylon
Nylon 66
Polypropylene
Polyurethane
Lycra
Lycra-Wool
"Split fibre"
P.V.C.
Nitrile rubber

YARNS, Abrasion, Tests

Testing yarns for resistance to abrasion and wear. K. Ramaszeder. *Textile Manufacturer*, 91 (Aug 65) p.319+. il. refs.

YARNS, Bleaching, Machines

Automation in bleaching and dyeing with reference to the Thies Duomat. E. Bohrer. *J. of Soc. of Dyers & Colourists*, 81 (Jun 65) p.258-61. il.

YARNS, Carpets. See CARPETS, Yarns

YARNS, Cellulose acetate, Tensile strain, Elastic recovery

Effect of time on the elastic recovery of fibres. J. C. Guthrie & J. Wibberley. *J. of Textile Inst. Trans.*, 56 (Mar 65) p.97-103. refs.

YARNS, Cellulosic, Dyeing, Machines

Specific problems in the dyeing of cellulosic fibres in circulating-liquor machines. P. J. Horn. *J. of Soc. of Dyers & Colourists*, 81 (Jun 65) p.262-8. il. refs.

YARNS, Core, Doubling

Preparation of core yarns on a conventional doubler. G. G. Muller. *J. of Textile Inst. Trans.*, 56 (Feb 65) p.73-92. il. refs.

YARNS, Cotton, Manufactures

Re-equipment in a Lancashire spinning mill. *Textile Recorder*, 82 (Jan 65) p.49-51. il.

YARNS, Cotton, Moisture regain, Effect of relative humidity

Relationship between moisture regain and relative humidity. S. Samasundar. *Textile Recorder*, 82 (Feb 65) p.68-9. il. refs.

YARNS, Cotton, Processing, Machines

Preparatory and spinning machinery of the cotton type. *Textile Recorder*, 83 (Nov 65) p.77-80. il.
Trends & developments in preparation machinery. F. W. Lawson & M. Dyson. *Textile Weekly*, 65 (26 Feb 65) p.359+. il.

YARNS, Cotton, Spinning

Modern technology in cotton spinning (summary) W. Nutter. *Textile Recorder*, 82 (Apr 65) p.60-2. il. refs.
Modern technology in cotton spinning, pt.2. W. Nutter. *Textile Recorder*, 82 (May 65) p.46-7. il. refs.

YARNS, Cotton, Spinning, Condenser, Lubricating oils

Textile oils for condenser spinning: development aimed at the elimination of staining & control of fly or dust. *Textile Weekly*, 65 (13 Aug 65) p.246-7

YARNS, Cotton, Spinning, Drafting, Speed frames, Control systems

Electronics in textile machines, pt.2: winding speed control on the cotton speed frame. R. Greenwood. *Industrial Electronics*, 3 (Apr 65) p.162-5. il.

YARNS, Cotton, Spinning, Machines

Preparatory and spinning machinery of the cotton type. *Textile Recorder*, 83 (Nov 65) p.77-80. il.
Spinning: recent developments in mill equipment for yarn spinning. F. Charnley. *Textile Weekly*, 65 (26 Feb 65) p.343+. il.

YARNS, Cotton, Spinning, Machines, Control systems

Automated spinning plant: processing control and fault detection [Stone-Platt at Smith & Nephew Textiles, Ltd., Brierfield] *Instrument Practice*, 19 (Aug 65) p.744-6. il.
Automation—"an English compromise": Platt spinning system installed at Smith & Nephew—equally capable of obtaining good synthetic blends [Textile Machinery Makers Ltd.] *Man-Made Textiles*, 42 (Jul 65) p.40-2. il.
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Automation in cotton spinning. W. Nutter. *Textile Recorder*, 83 (Sep 65) p.60+. il. refs.
Continuous spinning in sight [Stone Platt at Smith & Nephew Textiles, Ltd., Brierfield] *Control*, 9 (Jul 65) p.388
Europe's first automated spinning plant [Brierfield Mill] *Textile Manufacturer*, 91 (Jul 65) p.269-74. il.
Europe's 1st automated spinning plant [Textile Machinery Makers Ltd.] *Mass Production*, 41 (Sep 65) p.25-9. il.
Europe's first automated spinning plant [Textile Machinery Makers Ltd.] *Wool Record*, 107 (11 Jun 65) p.14-15. il.
Europe's first automated spinning plant: continuous sliver producing unit [Brierfield Mill] *Textile Weekly*, 65 (11 Jun 65) p.1041-3. il.
Europe's first automated spinning plant [Smith & Nephew Textile Ltd.] *Textile Recorder*, 83 (Jul 65) p.44+. il.
Making cotton a modern process industry [Stone-Platt at Smith & Nephew Textiles, Ltd, Brierfield] *Engineering*, 199 (11 Jun 65) p.765. il.

YARNS, Cotton, Spinning, Standards

Uster yarn standards 1964. K. H. Douglas. Textile Manufacturer, 91 (Feb 65) p.55-8. il.

YARNS, Count

Basic yarn count. B. Kolundzic. Man-Made Textiles, 42 (Apr 65) p.34-6. il.

YARNS, Count, Determination

Quality control problems arising from automation. H. Catling. Textile Inst. & Industry, 3 (Mar 65) p.63-5

YARNS, Creep, Elastic, Pulleys

Extensible string on a rotating rough cylinder. B. Trott. Engineer, 220 (30 Jul 65) p.179-80. refs.

YARNS, Dyeing, Effluents, Waste heat recovery, Plant

Heat recovery from a dyehouse [Steam Storage Co. Ltd.] Steam & Heating Engr., 34 (Mar 65) p.6-9. il.

YARNS, Dyeing, Machines

Automation in bleaching and dyeing with reference to the Thies Duomat. E. Bohrer. J. of Soc. of Dyers & Colourists, 81 (Jun 65) p.258-61. il.

Controlled area yarn dyeing machine [Laing] Textile Recorder, 82 (May 65) p.66+. il.

YARNS, Elastic

Knitted stretch fabrics and garments, pt.1: stretch concept. P. N. Milne. Hosiery Trade J., 72 (Jun 65) p.105-10

Stretch yarns & fabrics. J. H. Riley. Textile Weekly, 65 (5 Feb 65) p.213+

Stretch yarns & fabrics. J. H. Riley. Textile Weekly, 65 (12 Feb 65) p.255+

YARNS, Elastic, Corespun, Dyeing

Dyeing of corespun Spandex yarns. W. Stump. Hosiery Trade J., 72 (Jul 65) p.115-16

YARNS, Elastic, Corespun, Spinning, Cotton processing machines

Elastomeric core spinning on the cotton system. E. Hobson. Textile Recorder, 83 (Dec 65) p.52-4. il.

YARNS, Faults, Detectors, Photoelectric

Review of developments in yarn cleaning. T. Bailie. Textile Inst. & Industry, 2 (Dec 64) p.278-82

YARNS, Filament, Filament migration

Migrating filament theory: apparent variation of twist with radial position. L. R. G. Treloar & G. Riding. J. of Textile Inst., Trans., 56 (Jul 65) p.381-8. il. refs.

Migrating-filament theory of yarn properties. L. R. G. Treloar. J. of Textile Inst., Trans., 56 (Jul 65) p.359-80. il. refs.

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YIELD STRESS, Alpha brass. See BRASS, Alpha, Yield stress

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YIELD STRESS, Polymethyl methacrylate. See POLY-METHYL METHACRYLATE, Yield stress

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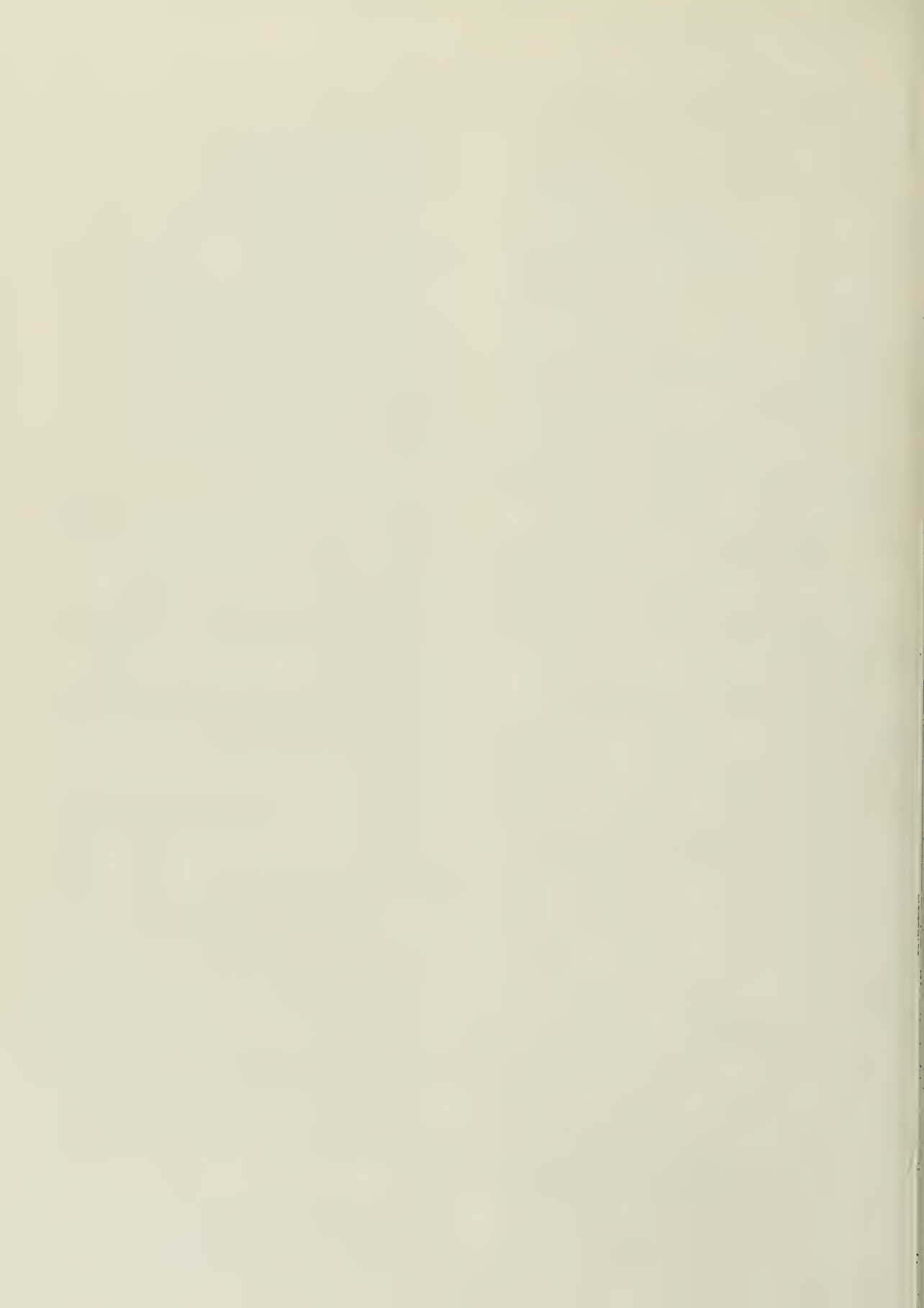
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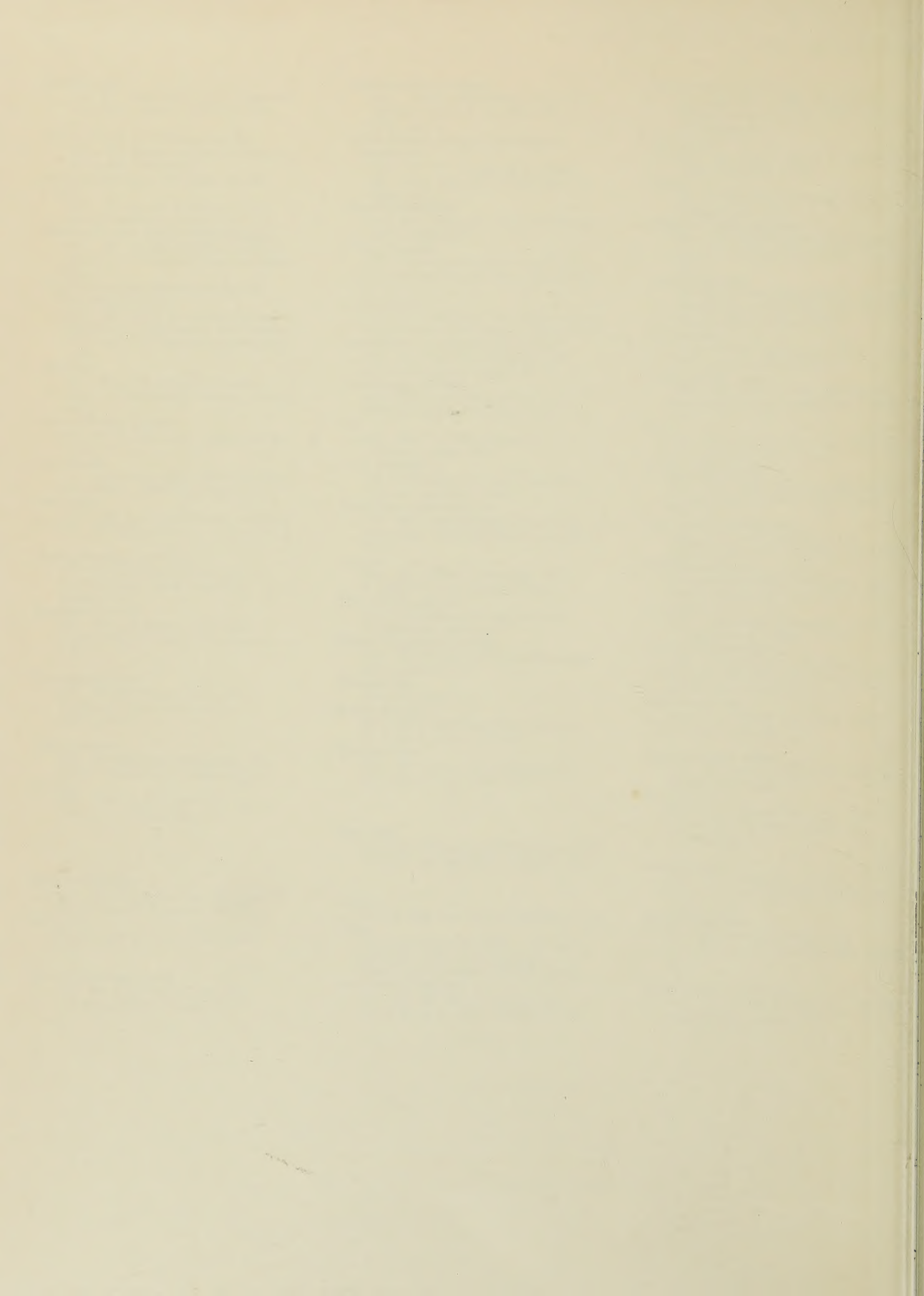
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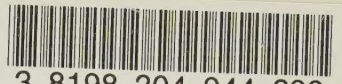
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